AGRICULTURAL OUTILOOK

Economic Research Service
United States Department of Agriculture

December 1992

U.S. GRAIN QUALITY

FITNESS for COMPETITION

December 1992/AO-192

AGRICULTURAL OUTLOOK







Cover photo: Grain sorghum heads, just after emergence

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News of Grain Quality, U.S.-EC Oilseed Dispute, and Ag Performance in the CEE's and FSU

ith harvest in the Northern Hemisphere mostly complete. several U.S. crops are expected to post records or near-records in output and yields. A record-large U.S. com crop-25 percent higher than in 1991/92—is expected to boost world coarse grain output, despite declines in several countries. U.S. wheat output in 1992 is also up-24 percent over 1991's reduced level. The U.S. advance, combined with a bigger crop in the former Soviet Union, would raise world wheat output to more than 553 million tons, offsetting production declines in Canada, Argentina, and Europe.

Strong demand for protein meals in several Asian countries, along with tightening global supplies of other oilseeds, is expected to stimulate soybean demand. Prospects are favorable for an increased U.S. share of oilseed product exports, particularly with short supplies in South America until harvest in early 1993.

Meanwhile, agreement was reached to settle a U.S.-EC trade dispute over oil-seeds that simmered over 5 years and heated up in recent months. The dispute centered on EC subsidies to oilseed producers, at prices well above world market levels. The subsidies have provided a generous incentive to increase EC oilseed output, displacing imports of oilseeds from the U.S. and other oilseed-exporting countries.

On November 5, the U.S. had announced it would withdraw trade concessions by assessing prohibitive duties of 200 percent on about \$300 million in goods imported from the EC unless the oilseeds dispute were resolved by December 5. The 30-day grace period allowed time for further negotiations. But if implemented, retaliatory tariffs would have been placed on U.S. imports of white wine, rapeseed oil, and wheat gluten from the EC.

In fiercely competitive global grain markets, how important is quality in competitiveness and market share? U.S. grades



and standards defining grain quality for export were initiated over 75 years ago. Concerns have arisen that changes in grades and standards do not address characteristics needed for new products.

Critics of the current system of grades and standards argue that U.S. competitiveness could be compromised if quality concerns of foreign customers are not addressed. Others point out that the U.S. system of grades and standards is only one of many levels of quality control in the U.S. grain sector, and that changes in grades and standards alone are not likely to ensure quality competitiveness.

While quality is a key concern in some markets, grain quantity—and restoring market balance—are pressing issues in the republics of the former Soviet Union (FSU) and the countries of Central and Eastern Europe (CEE). Three years have elapsed since political upheaval shook the CEE's, and in that time they have liberalized prices of most farm commodities, passed land reform legislation, and democratized political processes.

With few exceptions, CEE economies are beginning to show signs of improvement—inflation is slowing, and gross domestic product (GDP) is expected to begin growing again in the near term. But in 1992, with plantings of many crops reduced due to surplus production in 1991 and confusion over land ownership, drought slashed agricultural output of the CEE's even further.

The drought affected several grain producing countries in northern Europe, including the Baltic states of the FSU. But overall, grain output rebounded significantly from 1991's reduced level. USDA's November projection calls for a 20-percent increase in FSU grain output, at just under 183 million tons.

With higher grain output, total 1992/93 FSU-15 grain imports are estimated down from last year. As of November 10, USDA projects FSU grain imports for 1992/93 (July-June) of 31 million tons, down from almost 42 million. The decline in grain imports also reflects increased state procurement and difficulties with debt servicing primarily because of hard currency earnings constraints.

The U.S. economy continued to be sluggish in the third quarter although third-quarter real GDP grew between 2.5 and 3 percent at an annual rate, led by a nearly 3.5-percent rise in consumer spending. The rise in consumer spending was a welcome sign that private spending might be reviving, but other indicators suggested that the momentum might not be sustained. Business investment spending was essentially unchanged in the third quarter, reflecting a general unwillingness to increase capital spending without a signal of strong future demand.

On the bright side for U.S. consumers and agriculture is the outlook for energy prices. The latest Department of Energy (DOE) short-term energy outlook foresees only modest increases in consumer energy prices.

Prime Indicators



¹For all larm products ²Calendar quarters Future quarters are lorecasts for ivestock, com, and dash recepta ⁵IESept-Nov, IIIDec-Feb, IIEMat,-Mays IVEJune-Aug Marketing years ending with year indicated.

²Retail weight ⁴Seasonally adjusted annual rate

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Field Crops Overview

Domestic Outlook— November Projections For 1992/93

With harvest in the Northern Hemisphere mostly complete, several U.S. crops are expected to post records or near-records in output and yields. A record-large U.S. corn crop is expected—25 percent higher than 1991/92—and corn use is also expected record high. And gains in U.S. corn production are driving world coarse grain output higher, despite declines in several foreign countries.

U.S. wheat output in 1992 is also up—24 percent higher than 1991's reduced level. The increased U.S. wheat production, combined with a bigger crop in the former Soviet Union, is projected to boost world output to more than 553 million tons, and to offset production declines in Canada, Argentina, and Europe.

Gains in output of most major crops will not be mirrored in trade. A sharp rise in feed wheat available from Canada will limit growth in U.S. corn exports, and wheat exports are forecast down slightly due to large competing supplies. Cotton trade is also forecast down, in spite of lower production—growth continues to be limited by weak world demand and keen foreign competition. U.S. cotton exports could decline 10 percent in 1992/93.

Corn Use To Set Record

- With disappearance up nearly 5 percent from last year, 1992/93 corn use to set a new record. Feed and residual use up more than 6 percent, buoyed by large supplies, lower prices, and expanded livestock production. Food, seed, and industrial use and exports up, too.
- The corn crop expected record high, with forecast output up 25 percent

from 1991, and 4 percent above October's forecast. This would be the largest U.S. corn crop ever, overshadowing the 1985 record by about 450 million bushels.

- Forecast yield of 129.3 bushels per acre would top the record set in 1987, by 9.5 bushels. The November forecast up 5.5 bushels from October, with record-high ear counts reported in most states. Grain weights per ear near normal. Twenty-one of 41 reporting states expected to tie or break their yield records.
- Corn harvest far behind schedule.
 By November 15, 59 percent of the crop harvested, well behind the 5-year average of 95 percent. The reason: many farmers waiting for

U.S. Fleid Crops-Market Outlook at a Glance

	A	rea							
-	Planted	Harvested	Yield _	Outout	Total supply	Domestic US6	Exports	Ending stocks	Ferm price
	-Mil.	acres —	Bu/acre	_		- Mil. bu			\$/bu
Wheat									
1991/92	69.9	57.7	34.3	1,981	2,688	1,135	1.281	472	3.00
1992/93	72.3	62.4	39.4	2,459	2,981	1,183	1,275	523	3.10-3.30
Com									
1991/92	76.0	68.6	108.6	7,474	9,015	6,331	1,584	1,100	2.37
1992/93	79.3	72.1	129.3	9,329	10,439	6,685	1,600	2,154	1.85-2.15
Sorghum									
1991/92	11.0	9.8	59.0	579	722	377	291	53	2.25
1992/93	13.5	12.3	71.2	878	931	510	300	121	1.75-2.05
Barley									
1991/92	8.9	8.4	55.2	464	624	401	95	129	2.10
1992/93	7.8	7.3	62.4	456	605	365	110	130	2.00-2.20
Oals									
1991/92	8.7	4.8	50.7	243	489	360	2	128	1.20
1992/93	8.0	4.5	65.6	295	462	360	2	100	1.25-1.35
Soybeans									
1991/92	59.2	58.0	34.2	1,987	2,319	1,356	685	278	5.60
1992/93	59.1	58.1	37.3	2,167	2,447	1,367	730	350	5.00-5.40
			Lb/acre		— Md. c	owt (rough e	quiv.) —		\$/cwt
Rice									
1991/92	2.66	2. 75	5,617	154.5	184.3	90.7	66.4	27.3	7.53
1992/93	3.03	2.97	5.666	168.2	201.1	94.0	74.0	33.1	6.10-6.60
				_		M! bales		_	₽lb
Cotton									
1991/92	14.1	13.0	652	17.6	20.0	9.6	6.7	3.7	58.30*
1992/93	13.4	11.2	694	16.2	19.9	9.7	8.0	4.3	_

Based on November 10, 1992 World Agricultural Supply and Demand Estimates: ILS. marketing years for exports. Weighted average price for August March, not a season average.

See table 17 for complete definition of terms.

Highest Corn Producing States Stated To Reach Record Yields	Highest Corn I	Producina	States	Stated	To Reach	Record Yields
---	----------------	-----------	--------	--------	----------	---------------

	Expected production	Expected yield	Record-high yield	Year of highest yield
	MI. bu	Bu/acre	Bu/acre	
Com				
lowa	1,900	145.0	145.0	1992
filinois	1,595	145.0	145.0	1992
Nebraska	1,043	132.0	132.0	1992
Indiana	844	143.0	143.0	1992
Minnesota	805	122.0	127.0	1987
U.S.*	9,329	129.3	129.3	1992
Soybeans				
Illinois	404	43.0	43.0	1992
lowa	346	43 0	43.5	1987
Indiana	189	42.0	42.0	1992
Minnesota	189	35.0	39.0	1987, 1990
Missouri	153	36.0	36.0	1992
U.S.*	2,167	37.3	37.3	1992
	1,000 bales	Lb/acre	Lb./acre	
Upland cotton				
Texas	3,400	460	506	1987
California	2.700	1,303	1,303	1992
Mississippi	2,200	785	888	1991
Arkansas	1,600	800	800	1992
Louisiana	1,300	709	828	1991
U.S.	15,709	689	702	1987

Previous U.S. record for corn was 119.8 set in 1987, and for soybeans 34.2 set in 1991.

the high-moisture crop to "dry down," while persistent rainfall—prolonging drying time—has caused further delays.

 Com ending stocks to nearly double from the carryin level, and the stocks-to-use ratio—at 26 percent at the highest level since 1988.
 Prices expected in the \$1.85-\$2.15 range, below last year's \$2.37.

Record Yields for All Feed Grains

- Forecast sorghum yield of 71.2 bushels per acre to surpass previous mark of 69.4 set in 1987. Ten of 18 reporting states tie or break their records.
- Forecast barley yield of 62.4 bushels to shatter record set 10 years ago in 1982, by more than 5 bushels per acre. And the expected oat yield, at 65.6 bushels per acre, is 2 bushels above the record set in 1985.

Twelve barley states and 14 oat states projected to realize record yields.

 The last time all four feed grains registered record yields was in 1965.

Soybean Crush Highest on Record

- Total soybean use in 1992/93 to rise nearly 3 percent from last year, and expected just 2 million bushels short of the 1982 record. Crush expected record high as domestic meal demand remains strong. Exports also up, due in part to reduced rapeseed production in the EC and Canada.
- Strong demand helping offset the pressure of this year's large crop.
 Production up more than 9 percent from last year, and the highest since 1982. This would be the thirdlargest crop on record.

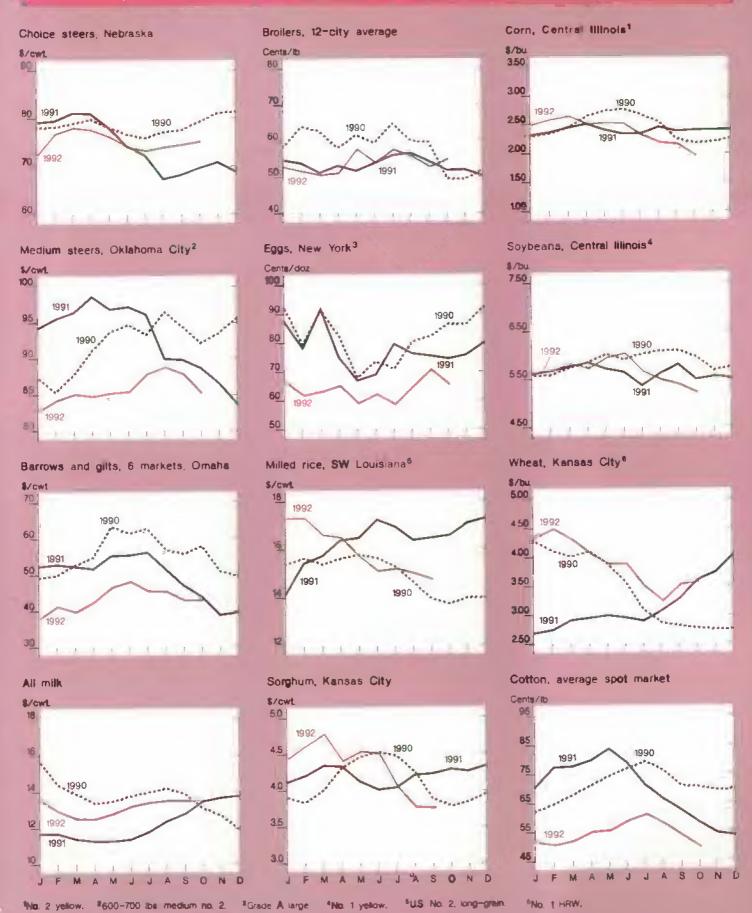
- Forecast yield of 37.3 bushels per acre up 1 bushel from October's forecast and up 3.1 bushels from the 1991 record. Record pod count and slightly above-average pod weights being reported.
- Soybean development rebounded in the Corn Belt following the cool summer. As of November 15, harvest 91 percent complete nationwide, slightly behind the 5-year average of 94 percent.
- Ending stocks in 1992/93 projected 26 percent above carryin, and the stocks-to-use ratio would be the highest since 1990/91. Seasonaverage price expected in the \$5-\$5.40 range, down from 1991/92's \$5.60.

Total Wheat Use Up Slightly

- Total wheat use expected up about 2
 percent in 1992/93. Domestic use to
 be third highest on record, the result
 of higher domestic flour use and estimated first-quarter feed and residual
 use higher than expected. But exports down slightly due to large competing supplies.
- Output in 1992 up 24 percent from 1991's reduced level, and supplies up 3 percent. Rise in output due to a near-record U.S. average yield—just one-tenth of a bushel short of the 1990 record—and an 8-percent rise in harvested area.
- Ending stocks to exceed the carryin level by about 50 million bushels.
 Season-average price in the \$3.10-\$3.30 range, up from 1991/92's \$3.
- Much attention focused on 1993
 crop prospects. As of November 15,
 86 percent of the winter wheat crop
 emerged, 3 points behind average.
 Soil moisture in the Great Plains is
 generally better than a year ago, but
 parts of the Pacific Northwest and
 Southern Plains are dry.

Commodity Market Prices

Commodity Overview



Rice Use Second Highest on Record

- Total rice use in 1992/93 expected to miss the record set in 1988/89 by just 400,000 cwt. Domestic use to set record, while exports forecast to be the highest since 1989.
- Supplies also expected up. The 1992 rice crop is expected to be the second highest on record, bringing supplies more than 9 percent above last year.
- Large supplies expected to overshadow the increase in use. Ending stocks projected 5.8 million cwt above carryin, and the seasonaverage price expected in the \$6.10-\$6.60 range would be well below 1991/92's estimated \$7.53.

... But Cotton Use Projected Down

- Total cotton use in 1992/93 projected down 3 percent from last year.
 Although domestic consumption up 1 percent with strong mill use, exports to fall nearly 10 percent due to strong foreign competition.
- With lower acreage, production expected down 8 percent from last year's near-record level. Cool, damp weather has been a problem in some areas, contributing to a projected harvested-to-planted ratio of 83 percent, down from last year's 92 percent.
- Use expected down more than supply, and ending stocks expected 16 percent above carryin, at 4.3 million bales.
- The U.S. average price received by farmers for upland cotton through mid-October of the 1992 marketing year at 52.9 cents per pound, well below the average price in the first three months of 1991/92—64.7 cents.

[Joy Harwood (202) 219-0840]

World Market: Outlook for 1992/93

Global Wheat Output Up

- Increased U.S. wheat output and a bigger FSU crop to boost world output to 553.1 million tons and offset declines in Canada, Argentina, the EC, and Eastern Europe. FSU harvest reports indicate a larger-than-expected crop of 90 million metric tons, with the republic of Kazakhstan reporting a record spring wheat crop.
- But lower global wheat consumption—particularly in the former Soviet Union and Eastern Europe, where livestock liquidation has

- dampened demand for feed wheat—likely to generate a 7-percent drop in world trade to 101 million tons.
- High carryin stocks in the EC and Canada will help maintain their market shares, despite lower production.
 Faced with strong export competition, U.S. exports projected down to 34.5 million tons, accounting for 34 percent of world trade.

U.S. Drives Gains In Coarse Grain Output

 While world output, estimated at 837 million tons, will exceed the previous high of 1985/86, foreign output is down—overall global gain driven largely by higher U.S. corn output.

Gains in World Grain and Oilseed Production Boost Stocks in 1992

	Year 1	Production	Exports 2	Consumption 3	Carryover
			Mi	l. tons	
Wheat	1991/92	542.3	108.2	554.6	131.5
	1992/93	553.1	101.2	549. 3	135.3
Coarse grains	1991/92	8.008	94.3	806.2	132.2
	1992/93	836.8	88.7	818.7	150.3
Com	1991/92	485.1	62.5	486.0	79.6
	1992/93	520.6	58.1	499.9	100.3
Rice	1991/92	34 7.3	14.6	351.4	56.5
	1992/93	349.5	13.8	353.4	53.0
Oilseeds	1991/92	223.0	36.7	184.7	21.2
	1992/93	224.2	36.7	184.6	22.4
Soybeans	1991/92	106.1	26.1	91.9	18.1
	1992/93	112.2	29.5	93.5	19.9
Soybean meal	1991/92	72.8	28.3	72.6	2.8
	1992/93	74.1	27.2	73.5	2.9
Soybean oil	1991/92	16.7	4.2	15.9	2.1
	1992/93	17.0	4.2	16.9	2.0
			Mil.	bales	
Cotton	1991/92	95.9	22.5	85.0	40.0
	1992/93	87.3	22.7	86.7	40.2

¹ Marketing years are; wheat, July-June; coarse grains and com, October-September, oilseeds, soybeans, meal, and oil, local marketing years except Brazil and Argentina adjusted to October-September, cotton, August-July. ² Rice trade is for the second calendar year. ³ Crush only for soybeans and pilseeds.

Source: Foreign Agricultural Service, USDA.

- Gains in production are not matched in trade. A sharp rise in the export availability of feed wheat from Canada expected to dampen the outlook for U.S. corn exports, estimated to rise only slightly to 41.5 million tons.
- Mounting carryover stocks, primarily in the U.S. as production exceeds consumption, to depress prices.
- New EEP initiatives for barley, with 12 countries targeted for 2.54 million tons, support U.S. barley export prospects. U.S. export market share forecast to move up marginally to 12 percent, as reduced foreign supplies constrain exports.

Foreign Cotton Production Decreases

- ... as China's production drops precipitously to 21 million bales. Insect damage and drought in Shandong, Henan, and Hebei provinces—the major growing areas—adversely affected yields. China's 5-million-bale drop will lower foreign output to 87.3 million, a 9-percent decline from last year's record.
- U.S. export market share still down despite lower foreign production.
 Growth continues to be limited by weak world demand and continued keen foreign competition.
- World cotton stocks continue burdensome, despite declines in both China's and FSU's production and stocks, as global output maintains an edge over record consumption.

Strong Meal Demand Raises Export Prospects

 despite strong competition from South America, where favorable planting conditions boost the outlook for soybean production. Favorable credit policies in Brazil and high returns from last year's harvest boost soybean production to 19.8 million, but not enough to offset sharp downward revisions in China's estimated oilseed crop.

Asia's Soy Imports Buoy World Markets

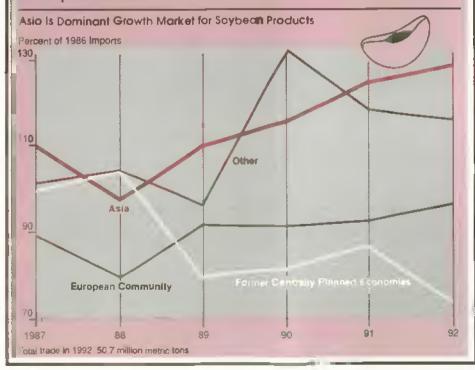
Growth in soybean product imports by East Asian countries has buoyed world demand for soybean products over a 6-year period, 1986 to 1992. U.S. exports of soybean products to this region grew 9 percent during this period, despite a 10-percent decline in total U.S. soybean product trade.

Higher incomes and growing livestock industries in East and Southeast Asia are stimulating world demand for soybean products. Since 1986, soybean meal consumption in Japan, Korea, Talwan, the Philippines, Indonesia, Malaysia, Singapore, and Thailand has increased at a rate of 6 percent. This compares with relatively slow growth of 1,6 percent in world consumption.

While Southeast Asia has exhibited the strongest growth in consumption, the East Asian countries of Japan. Taiwan, and South Korea continue to lead the region in imports of both beans and meal, with combined imports in 1992 forecast at 8.1 million tons (soybean meal equivalent). Total Asian imports in 1992 are forecast to account for about 22 percent of world trade in soybeans and meal, compared with 17 percent in 1986.

The growth in U.S. exports to Asia has not offset declines in U.S. sales to the Soviet Union and Central and Eastern Europe, where economic turmoil and consequent liquidation of livestock herds have dampened import demand for protein meals. Nor have the gains offset the 43-percent decline since 1986 in soybeans and soybean meal to the EC, where domestic support programs have encouraged production of oilseeds, limiting import demand.

The outlook for U.S. soybean exports in 1992/93, however, is favorable. Strong demand from Asia for U.S. soybeans and soybean meal is projected to continue, particularly with competition from China diminished by its short soybean crop. Asian demand is complemented by booming soybean exports to the EC, where a relatively low dollar at the beginning of the marketing year, combined with the threat of a U.S.-EC trade war and low stocks in South America, stimulated EC imports of soybeans at the onset of the marketing year. [Nancy Morgan (202) 219-0825]



- Strong demand for protein meals in several Asian countries, along with a further tightening of supplies of other oilseeds, to stimulate demand for soybeans. Prospects are favorable for increased U.S. share of total oilseed product exports, particularly with short supplies in South America until harvest in early 1993.
- Global and U.S. soybean oil use and trade prospects substantially improved by recent events. A \$40-million P.L.480 vegetable oil allocation for Pakistan, combined with setting aside for 1 year the Pressler amendment—which forbade food aid sales to that country—will reopen a market that 3 years ago accounted for half of U.S. soybean oil export sales. And a significant drop in Chinese oilseed production could stimulate more demand for imported vegetable oils.

Near-Record World Rice Crop

- ... with increases in major consuming countries such as China, India, and Indonesia accounting for most of the increase.
- Abundant supplies dampen outlook for global trade, with increasing competition for a declining import market expected to drive world rice prices lower in 1993. Large supplies and falling U.S. prices should help maintain U.S. export market share.
 [Nancy Morgan (202) 219-0825]

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Livestock, Dairy & Poultry Overview

Exports of turkeys, broilers, pork, and beef continue strong. For all of 1992, turkey exports are forecast around 50 percent above last year, broiler exports about 11 percent higher, and pork exports at a post-World War II high. Beef and yeal exports could be 13-14 percent above a year ago.

Lower feed costs are leading to improved returns to producers. Corn prices have hovered around \$2 per bushel, lowering production costs and encouraging modest expansion in hog, broiler, and turkey output. Beef production is forecast up 1 percent in 1993.

The outlook for dairy product sales remains mixed. Increase in cheese sales in summer held commercial use near the previous year's, but sales of fluid milk dropped I percent. [For full update on market conditions, see tables 10-16.]

Record Turkey Stocks Continue

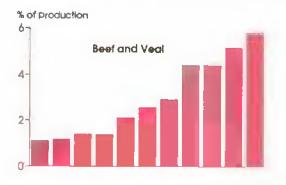
- Fourth-quarter output expected 1-2
 percent above last year following
 third-quarter growth of about 5
 percent. Total production for 1992
 estimated 3-4 percent above last year.
- Stocks reached 740 million pounds on October 1, about 11 percent above record levels a year earlier.
 Record consumption is necessary to slim down turkey stocks to around 300 million pounds by yearend.
- Booming exports, estimated to exceed 3.5 percent of output in the fourth quarter, to boost turkey sales.
- Wholesale prices firmed seasonally early in the fourth quarter and moved above the very low levels of last year. For the quarter, Eastern region hens are estimated to average

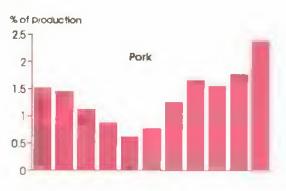
- around 60-64 cents per pound, compared with 62.9 cents a year ago. Returns, aided by lower feed costs, are estimated to average near breakeven and slightly better than last year.
- Moderate production increases of about 2 percent expected in 1993.
 Some improvement in returns in second-half 1992 together with expected lower feed costs may provide enough encouragement for expansion. Slower pork expansion would boost turkey sales and prices in second-half 1993.

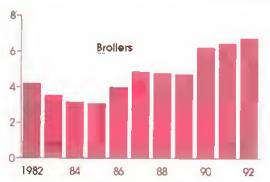
Strong Exports Boost Broiler Market

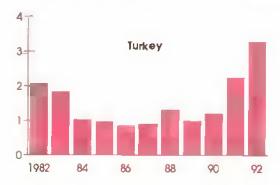
- Forecast for 1992 broiler exports raised to 1.4 billion pounds, 11 percent over last year, and about 7 percent of production.
- Strong exports worldwide received a
 push from a \$30-million export
 credit guarantee and \$8 million in
 food aid for broilers to the Russian
 Republic. Result will likely be delivery of about 88 million pounds of
 chicken quarters to Russia. Exports
 to the former Soviet Union (FSU) expected substantially lower than the
 183 million pounds of last year.
- Leading export markets for U.S. broilers in 1992 are Hong Kong (about 300 million pounds), Japan (about 285 million), Mexico (about 160 million), and Canada (about 100 million pounds). Fastest growing markets are Canada and Hong Kong, 32 and 36 percent above last year. Exports are driven mainly by large supplies of chicken leg parts at low prices.
- Broiler prices down seasonally as consumers switch to holiday-associated meats such as turkey and ham.
 Fourth-quarter wholesale broiler prices, aided by strong exports, are estimated around 52 cents per pound, compared with 50.5 last year.
 Retail prices have recently run about the same as last year.

U.S. Exports of Beef, Pork, and Poultry Are on the Rise

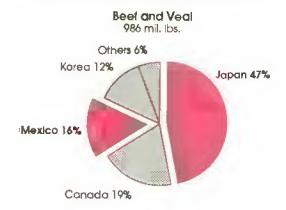


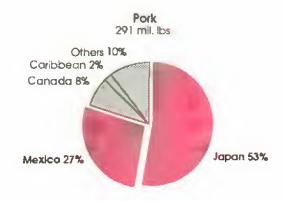


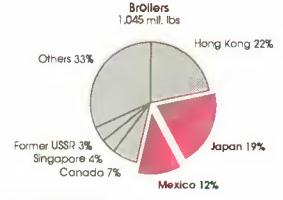


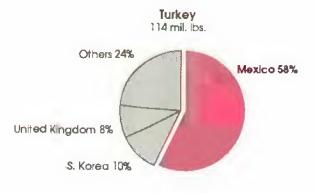


Mexico and Japan Are Major Customers









January-September 1992.

- Net returns to broiler producers improved in the third quarter to about
 the same as last year. During the
 fourth quarter, lower feed costs are
 expected to improve returns. For
 1992, returns are expected to average about the same as last year.
- Broiler production in 1992 is estimated up about 6 percent, following a 6.3-percent increase in 1991.
 Slower growth, about 3-4 percent, is expected in 1993.
- Exports, supported by competitive U.S. prices, are expected to reach another record high in 1993, continuing the string of increases that began in 1985.

Egg Production High

- Total egg production—both table and hatching eggs—is up 2 percent to about 5.9 billion dozen this year. Table-egg production, more than 5 billion dozen, rose 2 percent, a third consecutive annual increase. Output of hatching eggs, about 823 million dozen, increased 2.2 percent.
- Egg stocks, holding steady at about 16 million dozen-equivalent since early in the year, are 22.4 percent above last year and at highest levels since 1988.
- Table-egg flock, 237 million hens, continues to grow. On October 1 it was 2.3 percent above a year earlier.
- Wholesale New York prices for large eggs, only 63.5 cents per dozen in mid-October, began rising seasonally in the second half of October.
 Fourth-quarter prices should average about 70 cents, highest for the year but below last year.
- Retail egg prices in the quarter estimated at 89 cents, the lowest since 1988 and down from 98 cents last year.

- Producers' returns in the fourth quarter, boosted by higher egg prices and lower feed costs, are estimated well above breakeven but below those of fourth-quarter 1991. Average returns for the year will be well below those of 1989-91.
- For 1993, fractionally lower egg production is expected, at around 5.8 billion dozen. Table-egg output is expected to decline around a half percent to 1 percent from 1992.

Pork Output & Returns Up

- Weekly slaughter rates in October averaged 7 percent above a year ago.
 Hog prices averaged higher than expected at \$43 per cwt.
- Annual increase in the slaughter rate is expected to moderate in the coming months, keeping hog prices in the low \$40's until spring. Prices expected in low- to mid-\$40's during second-quarter 1993.
- Corn prices around \$2 per bushel will lower the cash cost of producing hogs into the mid-\$30's per cwt. Returns expected to continue above cash costs, encouraging producers to keep expanding at a modest rate.
 Commercial pork production, which is at record high, should continue to increase in 1994.
- Record pork production along with plentiful competing meat supplies should keep retail pork prices around \$2 per pound over the coming months. Prices for the first 10 months of 1992 averaged \$1.98, down 8 percent from a year ago. Nearly all the decline was in farm value, as the farm-retail spread was nearly as wide as a year ago.
- Record production and low prices helped boost pork exports to a post-World War II high. U.S. net imports in 1993 likely to be below 200 million pounds for the first time since 1977.

Beef Imports Restrained

- Beef and veal imports through September up 4 percent over last year.
 Imports from Australia and New Zealand were up 2 percent, and from Canada up 56 percent.
- Imports from Australia and New Zealand will drop in the fourth quarter because of the Voluntary Restraint Agreement signed by these countries. Shipments above the limit will be placed in bonded warehouses for release in 1993.
- Beef and veal exports up 14.3 percent through September 1992. Exports to Japan, South Korea, and Mexico up 18, 22, and 25 percent, while exports to Canada were unchanged.
- Mexico announced new import tariffs for cattle and beef on November 11. From a previous rate of zero, the new tariff rates are 15 percent for imported slaughter cattle; and for bovine carcasses and half-carcasses and bone-in cuts or boneless beef—20 percent for fresh and chilled, 25 percent for frozen.
- Feedlot placements increased sharply late in the third quarter and through October as grazing conditions declined seasonally. Higher placements were due to poor wheat grazing prospects and lower grain prices.
- Cattle-on-feed inventories moved above a year earlier on October 1 for the first time since July 1, 1991.
- Fed cattle prices nearly \$5 per cwt higher than a year ago as feedlots remained current in October.
- Retail prices for Choice beef in the third quarter averaged only slightly below a year ago, holding up well against the large supply of competing meats.

 Beef production forecast to increase 1 percent in 1993 because of increased fed beef and cow slaughter. Slaughter weights to average about the same as in 1992.

Dairy Product Demand To Remain Mixed

- Economic recovery not likely to be sufficiently strong and steady to generate sustained, brisk demand for dairy products.
- Strong summer cheese demand prevented a price collapse following a surge in milk production. A 5-percent increase in cheese sales held commercial use of all dairy products near the previous year, even though wholesale prices were up 4 percent.
- Fluid milk sales fell 1 percent in summer, continuing weak 1992 demand. Cool summer weather kept the lid on ice cream sales.
- Commercial use of butter continued a lackluster pattern as summer sales fell sharply after a spring jump. Retail sales were up, but industrial and away-from-home markets have not responded to lower prices.
- Nonfat dry milk disappearance fell from a year earlier and from earlier in 1992. Users probably reduced stocks built earlier in the year.
- Sales of cheese and butter expected to rise in 1993 because of favorable retail prices. Further economic recovery probably will help, but supporting only moderate growth.
 Nonfat dry milk use may slip as food processors continue to be tempted to reformulate products.

For further information, contact: Richard Stillman and Agnes Perez, coordinators; Steve Reed, cattle; Leland Southard, hogs; Lee Christensen and Larry Witucki, poultry; Jim Miller and Sara Short, dairy. All are at (202) 219-1285.

Specialty Crops Overview

The most recent estimates for fruit output point to larger U.S. apple, pear, and citrus crops for 1992/93. Prices are expected to dip because of the abundant crops. By contrast, a slightly smaller fall potato crop, and a dry bean crop likely to be a third less than in 1991, are expected to boost prices for those crops above last year's levels.

U.S. grape production is also expected up, with 5 percent more table grapes than 1991. In spite of large grape imports from Chile, U.S. production has

risen substantially to meet a growing consumer demand for grapes. Increased domestic production of seedless varieties, higher quality, lower relative prices, and extended seasonal availability are all factors contributing to the steady climb in consumption, which has tripled from 1970 to 1991.

Apple & Pear Prices Lower

 Prices of apples and pears expected lower than last year because of more fruit in storage and weaker export demand. U.S. apple crop estimated 4 percent higher than in 1991—9 percent higher for western states, the largest shippers of fresh apples out of storage during the winter.

Citrus and Apple Supplies Larger Than in 1991

				Forecast change from		
	1990/91	1991/92	1992/93	1990/91	1991/92	
Citrus production	1	,000 short to	ns — —	Per	cent	
Oranges						
Arizona	65	89	71	9	-20	
California	961	2,480	2,550	165	3	
Florida	6,817	6.291	8,370	23	33	
Texas	-1	1	19	<u>_1</u>	1,900	
U.S.	7,843	8,861	11.010	40	24	
Grapefruit						
Florida	1,916	1,803	2,296	20	27	
Arizona	77	89	70	-9	-21	
California	262	329	2	_9 _2	_2	
Техаз	_1	3	48	_1 _2	1.600	
U.S.	2,255	2,224	_2	_2	_2	
Lemons						
Arizona	156	194	217	39	12	
California	563	574	646	15	13	
U.S.	7 19	768	863	20	12	
Noncitrus atocks,		Million lbs,				
Apples (fresh market) 3	3,689	3,942	4,511	22	14	
Pears						
Bartiett	43	44	22	-49	-50	
Other varieties	407	359	358	-12	0	
				• —		
otal pears	450	403	380	-16	-6	
rapes	198	181	110	-44	-39	

¹ No commercial production reported due to freeze damage in December 1989. ² First forecast for California grapefruit "other areas" will be as of April 1, 1992. ³ International Apple Institute estimate.

Fresh Produce: The Global Factor

Markets for fresh fruit and vegetables are increasingly global as improved refrigeration and transportation have made it possible to expand supply sources. This increase in trade has expanded the variety and seasonal availability of fresh fruit and vegetables to U.S. consumers. In 1990, U.S. imports from all sources accounted for 12.3 percent of total U.S. fresh fruit consumption, excluding bananas (35.3 percent if bananas are included), and 8.4 percent of total fresh vegetable consumption.

As trade barriers are reduced, trade in fresh fruit and vegetables likely will continue to rise. The potential of Mexico as a supplier under a North American Free Trade Agreement would also be a factor in the continuing globalization of fresh fruit and vegetable markets. In 1990, Mexico supplied about 2.5 percent of U.S. fresh fruit consumption, excluding bananas (3.3 percent including bananas), and 5.4 percent of fresh vegetables consumed in the U.S. [Boyd M. Buxton and Dennis A. Shields (202) 219-0884]

Nearly All Bananas and Mangoes Consumed in the U.S. Are Imported

Fresh fruits			Imported
respirulis	U.S. consumption	Imported	from Mexica
	Mil. lbs.	Pen	cent — — —
Citrus			
Oranges	3,344.9	0.8	0.2
Grapefruit	1,118.5	0.9	0.0
Tangerines	237.5	15.7	11.5
Lemons	655.4	3.5	0.0
Limes	184.9	47.1	44.8
Tangelos	100.0	0.0	0.0
Total citrus	5,641.2	3.3	2.1
Noncitrus			
Apples	4,978.7	4.8	0.0
Grapes	1,961.7	36.7	2.9
Pears	814.5	11.9	0.0
Apricots	41.4	5.3	0.0
Avocados	270.7	10.9	0.0
Bananas	6,089 0	99.8	5.5
Chemes, sweet	94.9	3.3	0.0
Chemies, tart	3.8	15.8	0.0
Cranbernes	27.8	0.0	0.0
Figs	3.4	5.9	0.0
Kiwifruit	124.4	59.2	0.0
Mangoes (1989)	104.3	95.3	82.0
Nectarines	376.2	0.0	0.0
Peaches	933.2	12.2	0.0
Pineapple	520.4	48.3	1.7
Plums & Prunes	384.2	13.5	0.0
Strawberries	813.7	4.0	3.4
Papayas	45.1	25.5	14.4
Noncitrus fruit	17.586.9	44,4	3.0
Excluding bananas	14.407.4	15.0	1.6
All fruit	23,123.8	35.3	3 ,3
Excluding bananas	17,034.8	12.3	2.5

- Pear production estimated up 4
 percent from 1991. Production of
 other-than-Bartlett pears (fall and
 winter pears) estimated 3 percent
 higher.
- The International Apple Institute reports 14 percent more fresh market apples in storage on November 1 than a year earlier, while USDA estimates pear stocks 6 percent lower. Bartlett stocks were down while supplies of fall and winter varieties were unchanged.
- A good apple crop in Europe has reduced exports to the EC from the 1991/92 level. But growth in sales to Mexico, Venezuela, other Central and South American countries, and expanding markets in Southeast Asia may offset the decline in exports to Europe.
- Total U.S. grape production estimated 11 percent higher than in 1991. Table-type grape output 5 percent higher. USDA estimated November 1 storage stocks at 110 million pounds, 39 percent lower

than a year earlier. Storage grapes extend the U.S., marketing season until Southern Hemisphere imports become available. Winter availability has contributed to increased U.S. per capita consumption of fresh grapes.

Citrus Fruit Supplies Plentiful

Production up in 1992/93 for oranges, grapefruit, and lemons.
 USDA forecasts U.S. all-orange production 24 percent higher than in 1991/92.

Imports Contribute Over a Third of Squash, Cucumbers and Eggplant Share of consumption Imported Irom Mexico U.S. consumption 2 Imported Fresh vegetables 1 Mil. Ibs. Percent -22.0 Asparagus t47.9 20 R 2.1 842.4 2.5 Broccoli 2.278.1 23.3 14.2 Cantaloupe 1,6 6.1 2,003.9 Carrots Cabbage 4.1 1.8 2.177.7 2.3 1.7 Celery 1,799.5 3.3 Cauliflower 556.0 4.0 33.7 1,169.2 31.4 Cucumbers: 1,507.0 3.7 0.0 Dry beans 35.9 35.8 Eggplant 99.9 15.2 6.5 360.Q Garlio 2.2 Green peas 487.4 4.1 515.8 22.3 12.6 Honeydew Lettuce 6,940.4 0.2 0.2 0.0 0.7 Mushrooms 496.8 4.642.8 8.2 6.9 Onions. 20.6 18.8 1.069.3 Peppers. 11,372,2 6.0 0.0 Potatoes: 11.2 10.9 267.3 Snap beans 0.9 1.615.1 0.9 Sweet com-0.0 Sweet potato 1,240.8 4.8 6.5 62 Watermelon 3.534.3 20.1 Tomatoes 3,873.7 20.5 48.4 339.8 50.9 Squash 49,337.3 8.4 5.4 Total ¹ May include some processing, ² Data for 1990

- In Florida, which accounts for about three-quarters of U.S. production, orange output expected 33 percent higher. Nine out of 10 oranges in Florida are used for processing.
- Orange production in California, where fresh sales are the primary use, is forecast 3 percent higher than in 1991/92. Arizona's output forecast 20 percent lower than last year. Arizona accounts for less than 1 percent of U.S. crop.
- USDA forecasts Florida grapefruit production 27 percent higher than 1991/92. Florida accounts for 80 percent or more of U.S. grapefruit output. Texas expected to produce a commercial volume this season, the first since a freeze in December 1989 destroyed nearly all trees.
- Lemon production in the California/ Arizona region forecast 12 percent higher than in 1991/92. California's lemon production is recovering from tree damage caused by the December 1990 freeze.

Potato Prices To Strengthen

- Behind the price rise is a 2-percentsmaller fall potato crop. Fall acreage was lower than in 1991, but yields were record high. The fall crop—estimated at 364 million cwt—brings U.S. production for the season to 411 million cwt.
- Production for the western states
 was 5 percent lower than in 1991
 (down 13 percent in Washington and
 1 percent in Idaho). Central states'
 production also was off from the
 year before (down 8 percent in
 North Dakota, 10 percent in Minnesota, but up 3 percent in Wisconsin).
- The lowest prices since 1987 for 1991 potatoes cut U.S. acreage for fall harvest by 5 percent. Harvested area off 4 percent in Idaho, and 11 percent in Washington. Fall potatoes typically account for about 88 percent of total output.
- Estimated yields averaged 3 percent more than in 1991 when growers in several larger states achieved aboveaverage output. Nine states set or tied record yields, including Idaho, Michigan, North Dakota, and New York.
- Season-average price likely in the range of \$5-\$6 a cwt. USDA's first estimate of the 1992 season-average price becomes available in January 1993. Size of the fall crop is a major determinant of season-average price. The grower price (for all sales) for the 418-million-cwt 1991 crop averaged \$4.96 per cwt.

Winter Availability Boosts U.S. Grape Consumption

When Chile began exporting freshmarket grapes to the U.S. in the 1970's, some U.S. growers feared imports would reduce consumers' interest in grapes during California's peak shipping season from May through September. However, larger imports from December to May actually coincided with a substantial rise in total fresh grape consumption—both imported and U.S.-grown.

Increased domestic production of seedless grapes, higher quality, lower relative prices, and extended seasonal availability have led to strong and steady growth in consumption of fresh grapes. Per capita consumption of fresh grapes, which tripled from 1970 to 1991, grew faster than other traditional fresh fruits.

Increased plantings of seedless grapes have boosted U.S. production. Acreage of early-season Perlettes, marketed in May, doubled in the last 20 years. Acreage of the popular Thompson seedless, marketed between June and November, rose about 1 percent each year on average in the 1980's. Development of the Flame and Ruby seedless varieties has boosted production since 1970.

Better postharvest handling has improved the quality of grapes reaching consumers. For example, growers have recognized the importance of removing field heat immediately after picking, thus preserving quality and extending shelf life. Growers now pick grapes at the optimal time for peak ripeness and pay more attention to trimming the fruit bunches to enhance quality.

Lower prices of fresh grapes relative to other fresh fruit made grapes a more attractive purchase for the consumer. Although the U.S. average retail price for fresh grapes rose from \$1.06 per pound in 1980 to \$1.40 in 1991, prices adjusted for inflation declined about 20 percent. Inflationadjusted prices for citrus, on the other

hand, rose about 10 percent over the same period.

Grapes have benefited from consumers' demand for convenience. Grapes, especially the seedless varieties, which have become more popular than seeded, require minimal preparation and leave little waste after consumption.

A recent study indicated that almost 60 percent of U.S. consumers surveyed in 1992 ranked seedless grapes as one of their favorite fresh fruit snacks, up from 49 percent in 1987. Consumer concerns with weight, nutrition, and health have also helped to increase grape consumption. Continued demand for convenient and healthful foods will likely boost grape consumption in the 1990's.

On the retail marketing side, grapes are typically one of the largest contributors to produce department sales, especially July through September. Also, California table grape growers support market development and provide promotional material to retailers.

Perhaps the major factor in higher per capita grape consumption was the explosion of Chilean grape imports, dramatically widening the retail marketing season to year-round availability. Chile's excellent climate for growing fruits, domestic agricultural policies, investment in irrigation projects, and a government priority to develop fruit export markets all have led to a large Chilean fresh grape export industry. Not until Chile increased grape production and began aggressively marketing fresh grapes did the U.S. supply of fresh grapes increase considerably.

Imports increased 10-fold from 1977/78 to 1991/92. Consumption of imported grapes rose from one-third pound per person to over 2.5 pounds.

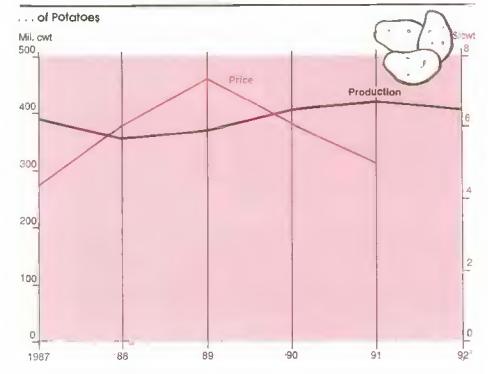
Nevertheless, during the same period, U.S. consumption of domestically produced grapes gained a healthy 5 percent per year. An above-average 1992 U.S. grape crop and expected larger Chilean production and exports will likely increase grape consumption to a record 8 pounds in 1992/93. [Dennis Shields (202) 219-0884]

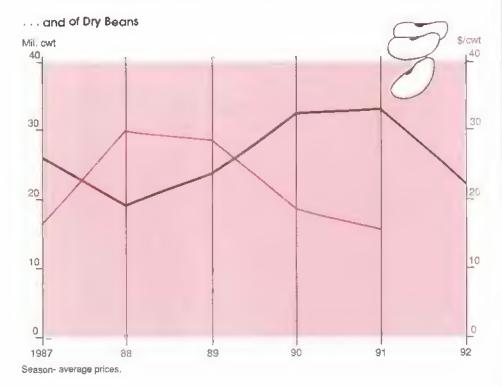
Imports Increase Consumption of Fresh Grapes

		Supply		Utilization			
Season 1	Utilized production	Imports	Total supply	Exports	Total	Consumption per capita	
	_		- Million lbs.		_	Lbs.	
Average 1970/71- 1974/75	733.9	32.4	766.3	240.1	526.1	2.5	
1980/81	1,024.6	123.5	1,148.1	352.8%	795.3	3.47	
1981/82	979.5	201.5	1,181.0	317,5	863,5	3.74	
1962/83	1,412.8	279.5	1,692.3	357.8	1,334.5	5.72	
1963/84	1,342.6	320.8	1,663.4	346.4	1,317.0	5.59	
1984/85	1,353.8	427.2	1,781.0	335.5	1.445.5	6.09	
1985/86	1,562.8	463.6	2,026.4	386.4	1,640.0	6.84	
1986/87	1,558.8	540.6	2,099.4	382.6	1,716.8	7.10	
1987/88	1,432.4	682.4	2,114.8	395. 5	1,719.3	7.05	
1988/89	1,662.6	652.3	2,314.9	397.8	1,917.1	7.78	
1989/90	1, 57 4.5	799.5	2,374.0	393.7	1,980.3	7.96	
1990/91	1.698.0	748.2	2.446.2	445.1	2,001.1	7.96	
1991/92 ²	1.600.8	694.5	2,295.3	437.1	1,858.2	7.28	

Season beginning July. Preliminary.

Sagging Prices Lead to Cutbacks in Production . . .





Dry Bean Prices Also To Climb

- Prices of dry beans expected higher in 1992/93 due to sharply lower acreage and yields, which pushed production 33 percent below last year's record crop. However, apparently large stocks carried over from 1991, along with weak export demand, may curb price increases.
- Production declines occurred across all the major bean-growing states, suggesting lower output for all major bean classes. Production estimates by class of bean become available in December.
- Large crops for 2 years in a row have put downward pressure on dry bean prices. Prices remained relatively low during the summer despite prospects for a substantially smaller crop in 1992, suggesting large stocks of old beans.
- The export market is not expected to give much of a boost to dry bean prices. Outlook for dry bean exports, on which the industry relies for a fourth of sales, is dim this year due to larger world production. Export demand was weak during the first three quarters of 1992 as export sales of pinto, navy, and Great Northern beans trailed year-earlier levels.

[Glenn Zepp (202) 219-0883]

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fruit and tree nuts; Gary Lucier, vegetables; Peter Buzzanell, sweeteners; Doyle
Johnson, greenhouse/nursery; Verner
Grise, tobacco; David Harvey, aquaculture; Lewrene Glaser, industrial crops.
All are at (202) 219-0883.

Commodity Spotlight



Cotton: The Comeback Fiber

uring the past decade, cotton led the way as natural fibers made a comeback in textile products. Use of natural fibers—cotton, wool, silk, and flax—fell throughout the late 1960's and 1970's, reaching just 30 percent of total fiber consumption in the late 1970's. Cotton set the pattern for use of all natural fibers, declining from the late 1960's until 1982—when it amounted to only 13.5 percent of domestic fiber use.

Cotton has come back. In 1991, per capita cotton consumption reached 24.6 pounds, the highest since 1966. Total U.S. consumption of cotton has nearly doubled since 1982. And natural fiber's share of domestic fiber use rose to 43 percent in 1991.

Largest End Use Is Apparel

Much of the growth in cotton consumption has come from imports of cotton textiles. Prior to the 1980's the majority of cotton textile products purchased by U.S. consumers was produced in the U.S. Although U.S. mills have increased their

output, the largest percentage increase has come from cotton textile imports, which have risen each year since 1982, with the exception of 1988. In 1991, imports were nearly three times the level of 1982. U.S. textile exports have also been rising since 1984, but the cotton textile trade deficit reached 1.9 billion pounds in 1991, about 30 percent of total domestic consumption.

Cotton's major advantages over manmade fibers are breathability and absorbency—characteristics that have kept cotton dominant in products like denim and toweling. The comfort factor combined with lower prices in the 1980's has led to the rebound in cotton use, especially in apparel.

Most of the cotton used in textile products—between 60 and 65 percent—goes into the production of apparel. According to the National Cotton Council of America, nearly 2.9 billion pounds of cotton was used by U.S. textile mills in the production of apparel in 1991.

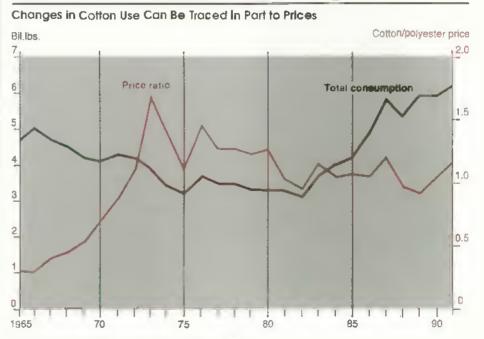
Cotton's share of fibers used in men's youths', and boys' apparel climbed to 69 percent in 1991, its highest since 1965. Men's, youths', and boys' apparel ac-

counted for about 1.8 billion pounds of cotton. Clothing in the women's, misses', and juniors', and the girls', children's, and infants' categories have also added more cotton, their share rising to 65 percent in 1991, the highest since 1967.

Home Furnishings: A Large Cotton Outlet

Aside from apparel, cotton is used in textiles for production of home furnishings and industrial supplies. Cotton's share of the home furnishings market rebounded from a low 18 percent in the early 1980's to 23 percent in 1991. More than 1.3 billion pounds of cotton was used in 1991 by U.S. textile mills in home furnishings such as draperies, upholstery and slip covers, towels, washcloths, sheets, and pillowcases.

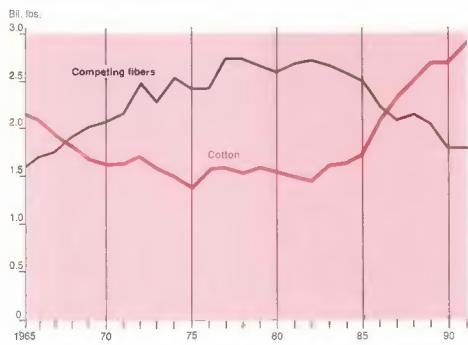
Towels and washcloths are made almost exclusively of cotton. In recent years, nearly 500 million pounds of cotton has been used annually in the production of these items. Over the past 30 years, cotton has maintained its share between 93 and 98 percent of fibers used for these products.



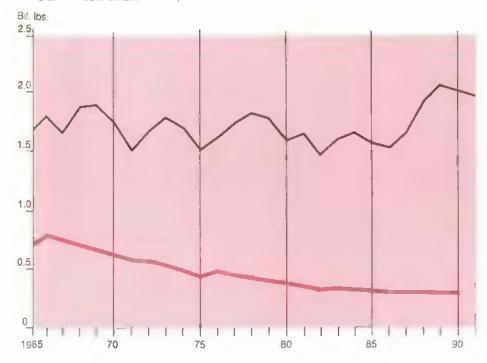
Raw fiber equivalent. Cotton prices: landed group 8 mill points. Polyester prices: f.o.b. producing plants.

Commodity Spotlight





... but Has Lost Share in Industrial Markets



Cotton use in draperies, upholstery, and slipcover fabrics increased during the 1980's, recovering market share lost to manmade fibers in the 1970's. In 1991, over 300 million pounds was utilized in this end-use market. Similarly, cotton use and share increased in the production of sheets and pillowcases. Cotton use totaled close to 240 million pounds in 1991, translating into a 63-percent market share.

Still, cotton's overall share of the home furnishings market may remain below higher levels achieved in the 1970's, due in part to the loss of the rug and carpet market. Manmade fibers are likely to remain the dominant choice in the production of carpets in the U.S. Carpets and rugs that do contain cotton are generally imported from foreign textile mills.

In contrast to the advances in the apparel and home furnishing markets, cotton use and share in the production of industrial textile products dropped below 300 billion pounds, the lowest on record. Cotton's share of the industrial use market is currently estimated at 14 percent.

The major industrial category of products made from cotton currently is medical supplies. But cotton's use in medical supplies has dropped to about 70 million pounds, 16 percent below its 1980 level. Cotton lost 20 percent of this market since 1980, primarily to rayon and other manmade fibers. Other industrial products, such as automobile furnishings, industrial thread, and woven tarpaulins—major markets in the 1960's—have followed a similar trend.

If consumers' tastes and preferences and subsequent demand for natural fibers continue as in the early 1990's, cotton's share of fiber consumption will likely remain at levels not experienced since the late 1960's. However, any further rise in domestic per capita cotton consumption will likely come from increased fiber use or new products rather than additional increases in market share.

[Bob Skinner and Les Meyer (202) 219-0840] 🔯



U.S.-EC Oilseed Dispute Eases

trade dispute between the U.S. and the European Community (EC) has simmered for over 5 years and heated up in recent months. The dispute centered on EC subsidies for oilseed production at prices well above world market levels. The high EC support prices have provided a generous incentive to increase oilseed production, displacing imports of oilseeds from the U.S. and other oilseed-exporting countries (Argentina, Brazil, and Canada).

Two panel reports of the GATT (General Agreement on Tariffs and Trade) have ruled that EC oilseed policies contravene EC obligations under the GATT. But the EC had objected to altering a support regime that was already revised as a prelude to wholesale reform of its Common Agricultural Policy (CAP).

Soybeans, Sunflowers, & Subsidies

Support prices for EC rapeseed, sunflowerseed, and soybeans, already above prevailing world prices, increased sharply in the late seventies and early eighties, rising to as much as 2.5 times world price levels during the 1980's. At the same time, EC support prices for alternative crops—principally grains—weakened, increasing the attractiveness of oilseed production to grain producers.

As a result, EC oilseed production rose rapidly and more than quadrupled in the 1980's. Rapeseed production grew from about 2 million tons in 1980 to nearly 7 million in 1991 (excluding additional production from the former East Germany). Production increases for sunflowerseed and soybeans were equally dramatic.

Total oilseed production rose from over 2 million tons to more than 10 million during the 1980's, with most of the increase between 1981 and 1987. The rapid growth slowed in the late 1980's, as budgetary problems prompted the EC to introduce measures to reduce the effective support price.

While EC oilseed production expanded, U.S. exports of soybeans and soybean meal to the EC began to fall. U.S. soybean exports to the EC peaked in 1982 at 11.4 million tons, recovered somewhat in 1987 at 10.3 million tons, but have otherwise declined. U.S. shipments of soybean meal exhibited a similar pattern—reaching a record 4.2 million tons in 1983 before falling to one-half million tons and less in 1989 and 1990.

The U.S. lost share in the EC market not only to EC-produced oilseeds but also to soybeans and soybean meal from South American producers-Brazil, Argentina, and Paraguay—which entered the EC market in the 1970's. The EC's expanded production has been mainly in high-oil-content seeds, such as rapeseed and sunflowerseed, permitting vegetable oil needs-previously met by crushing imported soybeans—to be met by domestic sources. Consequently, EC policy encouraged a large shift in imports from soybeans to soybean meal, where South American countries were highly competitive.

U.S. Complaint, EC Response

The U.S. objected to the EC subsidy because it abrogated an important trade concession and harmed the interests of U.S. soybean producers. During the Dillon

At Press Time . . . An Agreement

As AO went to press, an agreement was reached between the U.S. and EC over oilseeds, internal farm supports, and the volume of subsidized agricultural exports. The agreement also includes a commitment from both the EC and U.S. to refrain from unilateral trade action against each other. Although details of the November 20 agreement and adjustments by the EC and U.S. are not yet available, here are some highlights.

The EC agreed to limit its offseed production, setting aside 15 percent of the area now planted to oilseeds in the first year of the agreement, and setting aside 10 percent in subsequent years. Oilseed area would reach 5.128 million hectares by 1995/96 minus the EC program set-aside rate of at least 10 percent. Oilseeds could be grown for industrial purposes on set-aside acres only under very strict conditions. The EC agrees to undertake binding arbitration if the U.S. believes the agreement has been breached.

in addition to the oilseed settlement. the U.S. and EC reached accord on other provisions on agricultural issues related to the 6-year Uruguay Round of multilateral trade negotiations under the GATT. The volume of subsidized farm exports would be cut by 21 percent over a 6-year period, and both the EC and U.S. agreed to a 20percent across-the-board reduction in internal price supports. USDA Secretary Madigan noted that the U.S. has been cutting supports at that pace, and no additional U.S. cuts would be required. The agreement must still be approved by EC member states.

Round of multilateral trade negotiations under the GATT (1960-61), the EC had granted a zero-tariff concession on imports of soybeans and soybean meal. The value of the oilseed zero-tariff binding to U.S. soybean farmers is huge—oilseeds and products are the largest category of U.S. agricultural exports to the EC, accounting for 28 percent of all U.S. agricultural sales to that region.

In December 1987, the U.S. government accepted a petition initiated by the American Soybean Association charging that the EC's oilseed support policies constitute an unfair trade action under Section 301 of the Trade Act of 1974. After consultations with the EC failed to resolve the issue, the U.S. in January 1988 requested a GATT dispute settlement panel, which did not meet until June 1989.

Meanwhile, the U.S. Trade Representative determined that the EC oilseed policy constituted an unfair trade practice. Retaliatory measures called for under Section 301 were deferred until the ruling of the GATT panel in December 1989.

In January 1990, the GATT Council accepted the panel report, which ruled that the EC's oilseed policy nullified and impaired the benefits to the U.S.—and other oilseed exporters—of the 30-year-old tariff concession. The EC indicated its intention to comply with the panel's recommendations and to modify the oilseed policy during implementation of a Uruguay Round agreement. The agreement, expected in 1991, did not occur.

In response to the GATT panel finding, the EC adopted a new oilseed regime in December 1991, describing it as a transition program pending comprehensive reform of the EC's Common Agricultural Policy. The regime shifted oilseed support from a processor payment based on tonnage produced, to a producer payment based on area planted.

The U.S. determined that the new policy did not adequately address the findings of the GATT panel, and requested that the panel be reconvened. The GATT panel ruled in March 1992 that the new regime continued to deprive U.S. grow-

ers of the benefits of the earlier tariff concession. The EC rejected the ruling, prompting the U.S. to threaten retaliation in the amount of estimated damages—\$1 billion—incurred by U.S. soybean producers as a result of lost export sales.

The EC announced that it would attempt to renegotiate its tariff bindings on oil-seeds and oilseed meal, and intensive negotiations between the U.S. and the EC followed. After negotiations failed to produce a settlement, the U.S. requested binding GATT arbitration in September to determine the level of compensation owed by the EC to the U.S. and other countries that claim they are disadvantaged by the EC oilseed policy.

The EC refused to accept the U.S. arbitration proposal, and intense bilateral negotiations continued.

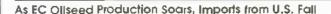
Meanwhile, A New Policy

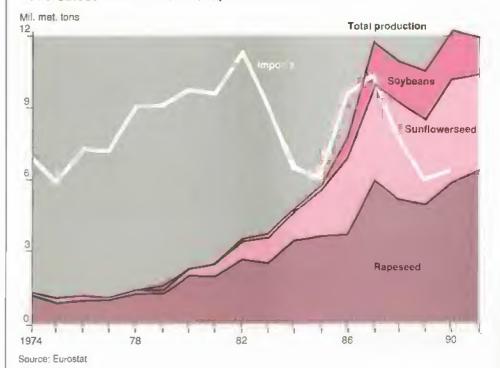
The EC's 1992 oilseed crop is the first to reflect the new support scheme put in

place in December 1991. In addition to the payment for oilseed area, producers now receive world market prices for their oilseed sales. The combined price-pluspayment system represents a drop in average producer returns from recent years for soybeans, but an increase for rapeseed and sunflowerseed.

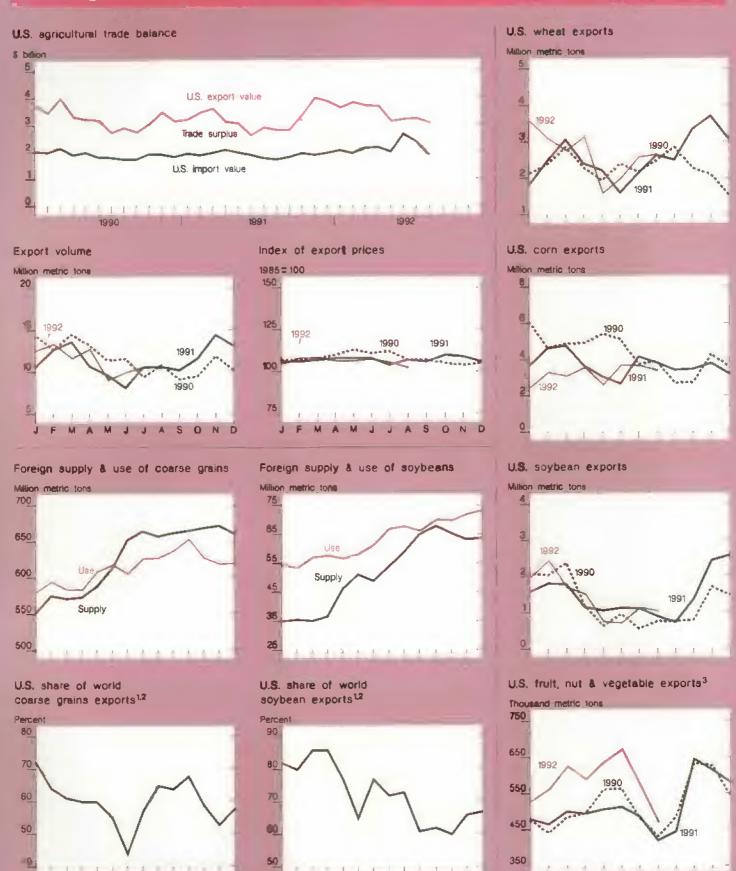
The new program covers oilseed crops harvested in 1992, including those planted in fall 1991. The policy change was approved well after the fall rapeseed crop had been planted, but producers of sunflowerseed and soybeans, which are generally spring-planted crops, had more time to assess the new policy. Uncertainties surrounding the implementation of the new regime may have led many EC producers to seek alternatives to oilseeds. Preliminary estimates of 1992 oilseed production indicate a mixed response by producers to the new support measures.

EC rapeseed production is estimated to have declined by 15 percent. A severe drought in northern Europe, a key rapeseed-producing area, was primarily





U.S. Trade Indicators



Includes fruit juices

¹Excluding intra-EC trade ²October-September years

History of U.S.-EC Oilseed Dispute

December 1987—American Soybean Association files Section 301 petition against EC oilseed policy.

January 1988—U.S. government agrees to investigate charges, brings dispute to GATT.

July 1989—U.S. Trade Representative finds EC policies constitute unfair trade practice that injures U.S. producers under Section 301; delays retaliatory measures.

January 1990—GATT Council adopts GATT panel ruling that EC oilseeds policy has nullified and impaired benefits of 30-year-old duty-free trade concession and violates GATT rule on national treatment. EC agrees to modify policy in implementation of Uruguay Round agreement.

December 1990—Uruguay Round negotiations break down at Brussels Ministerial meeting. July 1991—EC announces oilseed reform proposal.

December 1991—EC Agriculture Council grants final approval to new oilseed policy.

January 1992—U.S. requests that GATT panel be reconvened to consider whether EC's new policy implements panel's findings.

March 1992—GATT panel rules that EC's new policy continues to impair duty-free binding, directs EC to either modify policy or renegotiate concessions. EC refuses to modify policy.

April 1992—U.S. announces intention to levy \$1 billion in tariffs on EC goods.

June 1992—U.S. Trade Representative publishes list of products for possible retaliation.

November 1992—U.S. announces retaliatory tariffs on \$300 million of EC goods, effective December 1992.

responsible for the 1992 production drop, but area planted also fell. Output was further affected by an increase in spring-planted rapeseed, which has lower yields per acre than the fall-planted varieties but requires fewer inputs. In 1992, spring rapeseed accounted for up to 10 percent of rapeseed area in some member countries, while previously the fall-planted varieties comprised virtually all of the rapeseed crop.

Sunflowerseed production is estimated up by 8 percent, with a large increase in Spanish production outweighing declines in France and Italy. Spanish area rose nearly 38 percent as drought conditions favored planting sunflowers in lieu of corn, and producers responded to the oil-seed area payment by increasing sunflower planting on marginal land.

Soybean returns are hurt the most of any oilseed by the new policy. As a result, many soybean producers have turned to corn for a higher return. Soybean production is estimated to fall by an average 13 percent in the EC, reflecting a 13-percent decline in Italy, the EC's largest soybean producer. Production in France will likely decline by roughly twice that rate.

For the 1992 crop, the oilseed payment for each crop will be reduced by 1 percent for each 1 percent that total planted area exceeds a ceiling called the Maximum Guaranteed Area (MGA). In 1992, estimated area planted to oilseeds is within the MGA for rapeseed and soybeans. Spanish sunflower area is estimated to have exceeded its MGA, which will reduce the payment to Spanish sunflowerseed producers.

Most of the provisions of the support system adopted for the 1992 crop will remain in effect under comprehensive reform of the CAP, enacted in July 1992. Reform measures affecting other agricultural products—grains, protein crops, livestock, and dairy—began to take effect with crops planted this fall. Support to other arable crops (grains and protein crops) will shift to a combination of price support and direct payments to producers for the 1993 crop.

Eligibility for payments will require that large producers of all arable crops—including oilseeds—set aside 15 percent of their arable land. The competitive position of oilseeds in EC farmers' cropping scheme could be changed again by these measures.

Retaliatory Action Was Threatened

After a U.S.-EC meeting in Chicago on November 2 failed to produce an agreement on the oilseeds dispute, the U.S. Trade Representative on November 5 announced a trade concession withdrawal that would assess prohibitive duties of 200 percent on about \$300 million in EC exports to the U.S. Unless the oilseeds dispute was resolved by December 5, the retaliatory tariffs would affect U.S. imports of white wine, rapeseed oil, and wheat gluten from the EC. The 30-day grace period allowed time for futher negotiations.

The action followed a U.S. appeal to the GATT Council for authorization to apply retaliatory measures after several months of intense bilateral talks failed to resolve the dispute. The EC succeeded in blocking Council approval of higher duties.

The size of the threatened retaliation is unprecedented. The \$300 million in products scheduled for higher duties in December is the first "tranche" of a possible \$1 billion in imports earmarked for retaliatory action. If additional measures were imposed, a wider range of EC exports to the U.S. would be affected.

In addition to the original list of possible targeted items, which inclued pork products, cheeses, wines, liqueurs, confections, and other agricultural products, the U.S. released a list of additional products subject of trade action if negotiations failed to result in adequate reform of the EC's oilseed regime. Included on this list are recorded and unrecorded magnetic tape and recorded laser discs, perfumes, tires, glassware, ceramic tiles, and other industrial products.

U.S. imports of agricultural products from the EC (excluding distilled spirits) amounted to \$4.4 billion in calendar year 1991. Total 1991 U.S. imports from the Community were valued at \$86.5 billion. [Mary Anne Normile (202) 219-0620]

Progress Report: The CEE's

hree years have elapsed since political and economic upheaval shook Central and Eastern Europe (CEE), and the CEE countries continue to adjust to market-based economies. In that time, the CEE's have liberalized prices of most agricultural commodities, passed land reform legislation, and democratized political processes. Last year, AO reported at length on the CEE foray into the free market, in a two-part series (November and December 1991). This article presents an update on CEE progress in transforming their agricultural sectors and their overall economies.

Economies Stabilize At Lower Levels

Inflation has slowed in the Czech and Slovak Federal Republics, Hungary, and Poland, and gross domestic product (GDP) is expected to begin growing in the next 2 years. In Bulgaria and Romania, inflation should slow in the next year or so, and their economies are likely to

adjust further to market forces. But unemployment is likely to be a continuing problem over the next few years in all the CEE countries, especially in rural areas where new jobs are being created only slowly.

The economy of Albania shows signs of improvement, as employment has begun to rise and reform measures have returned small portions of land to peasants. But the economic situation in the former Yugoslav republics is nearly impossible to gauge, due to the war and chaotic conditions in that region.

While the economic changes generally signal improvement, the past year has not been without difficulties, both economic and political. As the CEE governments continue to make tough decisions to orient their economies toward private markets, they have come under increasingly fierce criticism by citizens. Higher prices and unemployment have led to a decrease in the standard of living and an increase in crime. Economic dislocation caused by reforms has fueled latent nationalism. While nationalism has exhibited its most hostile form in Yugoslavia, nationalist political parties have made their presence felt elsewhere in the region.

The Czech and Slovak Federal Republic (CSFR) is splitting in two, reflecting serious differences over the pace of economic reform. In Romania, citizens registered their discontent with economic hardship by reelecting Ion Iliescu, an excommunist advocating a slower economic transformation. Ultra-nationalist candidate Gheorghe Funar garnered over 10 percent of the popular vote.

In Poland, one year and three governments later, stability is returning to the country that plunged into reform ahead of its neighbors. The Bulgarian government, after a brief period of political cooperation, recently collapsed. Disputes over the pace of reform and the fierceness of the government's anti-communist stance led to a vote of no confidence by two parties of the three-party coalition government. And heated political debate in Hungary has focused on a recent speech with nationalist overiones, made by one of the nation's highest ranking

public officials—a vice president of the ruling Hungarian Democratic Forum.

Further economic and political reform in the CEE countries will depend heavily on a resolution of the "nationalism crisis" and the continuation of citizens' freedom to speak about government policies.

Drought Adds to Problems. Of CEE Agriculture

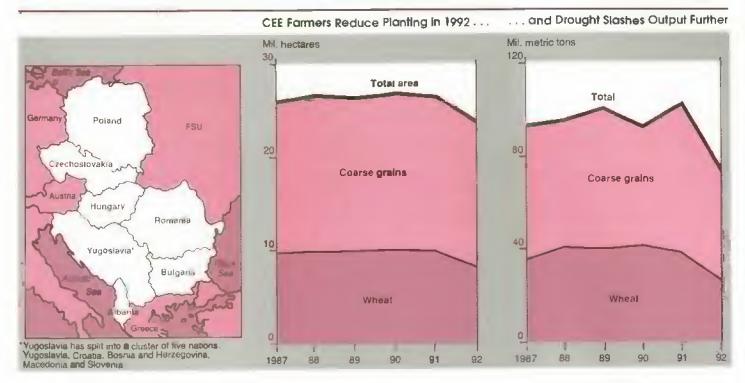
Agricultural output in CEE countries fell during 1992, primarily due to drought. In addition, surplus production in 1991 and confusion over land ownership in the midst of reform led farmers to reduce plantings of many crops in 1992. Rising costs of inputs relative to producer prices also forced farmers to reduce their use of fertilizers and other inputs. Distorted price signals under the command system had encouraged excessive use of inputs until recently, mainly fertilizers.

Low rainfall, hot weather, and a reduction in planted area and inputs contributed to an average 20-percent decline in crop production throughout the region. Livestock numbers in most of the region have also dropped, leading to tight dairy supplies in Poland and dairy product shortages in Romania.

The drought and resulting low production in 1992 stand in sharp contrast to 1991, when production in the northern CEE countries was high, consumer demand low, and exporting the excess difficult.

Grain production was especially hard hit by the drought. Wheat production in the CEE countries in 1992 is down 30 percent from 1991. The newly reorganized Yugoslavia, consisting only of Serbia and Montenegro, had the lowest wheat production in 27 years, at 2.2 million metric tons. Likewise, coarse grain production in the region fell by 29 percent in 1992. Most notably, Polish coarse grain output dropped an estimated 34 percent from 1991.

In Romania, production of wheat and coarse grains declined 40 and 26 percent from 1991 levels. Farmers who harvested grains may be able to take



advantage of relatively high domestic grain prices this year compared with last.

Changes in demand at least partially mitigate the brunt of these supply shocks. Lower demand for livestock products following the removal or reduction of consumer subsidies in 1990-91 has led farmers to cut livestock herds and to feed more efficiently. The result is a decrease in demand for feed grains. In the CSFR, Hungary, and Slovenia, where consumer demand for dairy products has dropped more precipitously than eattle numbers, an excess supply of dairy products persists.

Animal numbers in the region are expected to continue declining after last year's large reductions in herd size (20 percent in some cases for 1991-92). In Bulgaria and the CSFR, cattle numbers are expected to dip slightly, while in Hungary, Poland and Romania, larger declines are expected, on the order of 15 percent.

Likewise, swine numbers are also expected to fall. For the year ending June 1992, Hungary saw a 22-percent decline in the number of swine, a decline that is slowing. Romania, Bulgaria, Poland, and the CSFR are expecting slight decreases in their swine herd in the coming year. All the CEE countries are expected to decrease sheep herds and poultry stocks in the coming year as well, following last year's trend.

Grain Imports To Make Up for Drought

While a smaller livestock herd reduces the demand for feed grains, livestock numbers are not expected to drop enough to avert feed imports. In contrast to last year, when most CEE countries were actively seeking export markets for their grains, this year some will be shopping for imports to meet domestic demand.

Last year, Hungary exported over 3 million tons of grains, mainly wheat, while this year exports may only reach half that figure. Romania is expected to have

further shortfalls this year and may need to import approximately 2 million metric tons of wheat and corn, most likely through aid packages, as the country has little or no hard currency to pay for imports. Poland is also expected to import grain to meet feed demand this year; major imports will include wheat and coarse grains. Bulgaria and the CSFR, each relatively self-sufficient in grain production last year are both likely to export some wheat.

Oilseeds, fruits, and vegetables were also hard hit by the drought, with production 10-15 percent lower in 1992 than in 1991. Moreover, the Hungarian canning industry is in trouble—losing some 40 percent of production capacity to bankruptcy, exacerbated by loss of traditional markets—former Soviet republics—and falling domestic consumption. The canning industry has been a reliable market outlet for producers, but recently fruit and vegetable growers cannot count on payment for their output in a reasonable time period.

Despite the difficulties brought on by drought and the resulting decline in output, some signs indicate that market forces are functioning. Under the command system of producer and consumer subsidies, shortages and lines at shops would surely have resulted from the drought. While supplies may be tight this year, especially in Romania, market forces now in place allow prices to adjust to market-clearing levels. Decreased food demand because of lower incomes and a lack of consumer food subsidies is causing food prices to rise more slowly than overall consumer prices, making food products relatively inexpensive compared with other consumer goods.

Northern CEE's Move Ahead

In the northern CEE countries—Hungary, Poland, and the CSFR—price liberalization is all but complete, evidenced by lower inflation and stabilization of demand and supply. As a rule, agricultural prices in the northern CEE countries have risen more slowly than overall consumer prices.

Privatization and land reform, while proceeding at different paces and through different methods, have begun to put state land and properties into private hands. Privatization using coupons in the CSFR has achieved this more quickly than the privatization programs of Hungary and Poland. State trading monopolies have been functionally disbanded and private citizens now engage in trade with few restrictions.

The EC association agreements established with Hungary and Poland have taken effect, and will continue to increase trade between the EC and these two countries in the coming years. The EC association agreement with the CSFR has been put on hold, pending renegotiation with its two individual republics after their separation becomes final on January 1, 1993.

Further south, in Romania and Bulgaria, price liberalization has led to skyrocketing inflation, especially in Romania—where inflation for the 12 months ending September 1992 was on the order of 1,000 percent. These countries, unlike their northern neighbors, have not yet introduced rigorous fiscal stabilization programs and are printing money to finance large government deficits. Most prices in these two countries have been decontrolled and subsidies have been decreased or abolished. Privatization is moving slowly, but progress has been made.

Although Romania has implemented land restitution farmers, who are still unsure about ownership rights, remain reluctant to plant crops. In Bulgaria, where land restitution has proceeded more slowly, farmers are experiencing a smoother transition to private ownership. However, administrative bottlenecks threaten to seriously delay completion. While these southern CEE countries have eased trade restrictions, state trading monopolies still exist, especially in Romania where the government is reluctant to relinquish this area of control. Both countries continue to rely on some export controls.

Central and East European farmers learned important lessons in market operations during 1991/92. When farmers responded to market forces by planting less for the 1992 season, the drought caused a deeper cut in output than had been planned. In the case of Hungary, this simply means less exports, but in the case of Poland and Romania, it is a return to recent days of financing imports to meet domestic demand. For fledgling economies struggling to implement market reforms, the need to finance imports to meet domestic demand is an unwelcome pressure.

Future agricultural market reform depends upon both economic success and political support. As the first difficult wave of economic reform comes to a close and the CEE economies begin to strengthen, the politics of reform may begin to play a much larger role.

[Jason Lamb (202) 219-0620]

Environment & Resources



Modest Rise In Near-Term Energy Prices

The short-term outlook for energy prices is good news for agriculture, with direct energy use accounting for 5-6 percent of total farm expenses. Including fertilizer, the farm energy expenses rise to more than 10 percent of total farm expenses.

According to the latest Department of Energy (DOE) short-term outlook, only modest increases are foreseen for consumer energy prices. Given the sluggish growth of the U.S. economy in the near term, the price of crude oil should fluctuate around \$20 per barrel over the next few quarters.

DOE's outlook includes a rise in gasoline prices in urban and suburban regions, where new oxygenate content standards are taking effect, by about 4 cents per gallon by February 1993. However, in rural areas, which are not affected by the oxygenate standards, gasoline prices should be flat in the short term. The national average gasoline price is expected to rise by 3 cents a gallon by November 1993.

Environment & Resources

Diesel fuel and home heating oil prices are expected to increase 5 cents by November 1993, as lower sulphur content requirements are met. And natural gas prices are expected up about 6 percent in 1993, assuming normal weather.

1990 Oil Shock Was Milder Than Others

The U.S. economy reacted to the energy shock of 1990 very differently from the oil shortage of the 1970's. Industrialized economies, including the U.S., were far less vulnerable in 1990 than they were to the oil shocks of 1973-74 and 1978-79. The resilience is likely to continue for several reasons.

Although U.S. energy use has risen since 1974, its reliance on crude oil has declined. The U.S. used 12.1 percent more energy in 1991 than in 1974, but 2 percent less petroleum and 8.6 percent less natural gas. Per capita energy use declined 4.5 percent over the same period, and a smaller amount of energy was required to produce a dollar of real gross domestic product (GDP)—almost 36 percent less per dollar of real GDP. Automotive fuel efficiency also rose dramatically, from 13.4 miles per gallon in 1974 to 20.9 per gallon in 1990.

Alternative energy sources, including energy used to generate electricity, increased as well over this period. Although electricity use rose significantly from 1974 to 1991, the energy has been generated increasingly by coal and nuclear power. Nuclear energy generation increased almost fivefold over the period, while natural gas and petroleum used for electricity generation declined 18 and 65 percent.

Energy generated by solar, geothermal, and biomass sources play a small but increasing role in meeting U.S. energy demand. The energy from these alternative sources increased 110 percent from 1974 to 1991. Hydroelectric power use declined by almost 7 percent, however.

The changes in the U.S. were mirrored in most of the developed world. Japan, Germany, the United Kingdom, France, and Canada followed similar, pronounced changes in patterns of energy use and energy sources. Italy was one of the few industrialized nations that did not embark on an ambitious electrical nuclear power development program.

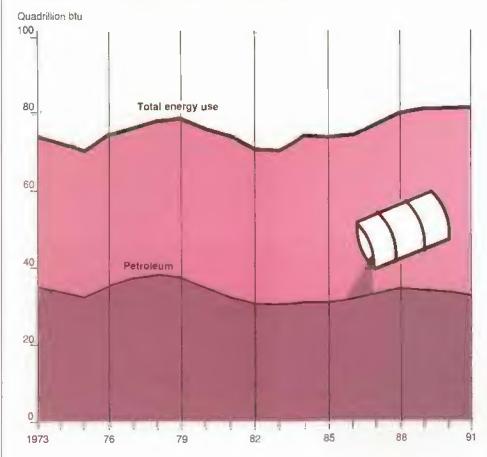
The radical change in energy use came from a combination of: (1) higher taxes on energy, (2) higher wholesale energy prices that induced fuel conservation, and (3) substitution of nonpetroleum inputs in production. Intra- and intergovernmental programs such as the Strategic Petroleum Reserve and other reservesharing arrangements among the major industrial powers also helped developed economies to become less susceptible to sharp crude oil price runups or supply disruptions.

On the supply side, new oil production from Alaska, the North Sea, Mexico, and the former Soviet Union have further mitigated the dependence of the world on the Organization of Petroleum Exporting Countries (OPEC).

Price Increases In the Long Term

Over the longer term, according to the DOE's Energy Information Administration (EIA), real crude oil prices are likely to rise over the last decade of this century and continue rising through the first decade of the 21st century. EIA forecasts annual growth of about 4 percent in the real crude oil price from 1992 to 1999, slowing to 2.4 percent per annum in the first decade of the 21st century. If recent history is any guide, oil price shocks may still occur, adding a cyclical pattern to the actual crude prices. Such oil price changes will likely have extremely





Environment & Resources

Adjusting to Oil Price Shocks

The industrialized economies have weathered three oil price shocks over the past two decades. The most recent, in 1990, had a much less severe impact on the U.S. economy, including agriculture. But the dramatic oil price increases of 1973-74 and 1978-79 highlighted the critical role of crude oil and manufactured energy in the U.S. economy.

Those oil price shocks also rippled through rural America and the farm sector. Indeed, in 1980 and 1981, the stagflation that plagued the U.S. economy was largely attributable to the sharp oil price increases of the 1970's. The impacts of the 1973-74 oil price rises on farm and rural economies were mitigated somewhat by a sharp rise in commodity prices that occurred around the same time—coinciding with a surge in farm exports.

By contrast, the farm sector and the rural economy suffered more adverse effects than the general economy from oil price shocks of 1978-79 during the recessions of the 1980's than in the 1974 recession. Increased energy expenses cut net farm income by raising production expenses, and at the same time forced the adoption of less energy-intensive technology in the manufacturing sector.

Cutbacks in overall manufacturing employment, resulting from higher energy expenses that raised production costs, hit manufacturing-dependent rural economies, and was largely responsible for the above-average declines in rural employment during the early 1980's. In 1982, rural manufacturing employment fell 7.3 percent, exceeding the urban manufacturing employment drop of 6.6 percent.

Rural residents saw a further decline in their living standards, as they were hit with higher-than-average increases in space heating and transportation costs. While urban and suburban housing is typically heated with natural gas or electricity rural homes used mainly LP (liquefied petroleum) gas and fuel oil. The LP gas and fuel oil prices reacted quickly and fairly proportionately to the increases in crude oil prices; natural gas and electricity prices rose more slowly.

With less access to public transportation or carpooling, the ability of a rural resident to adjust to a surge in gasoline prices was less than that of the typical urban resident. Finally, rural service sector businesses became less profitable as farmers, miners, and manufacturing workers had lower earnings, with both individuals and businesses absorbing higher energy expenses.

volatile leads and lags—making any long-term cyclical projection difficult.

The long-run consensus of U.S. academic, business, and government energy forecasters is that, since a large share of oil reserves are in Mideast OPEC countries, despite new discoveries elsewhere, long-term supply growth will be subject to OPEC's ability to control supply. With world energy and petroleum demand expected to increase with economic growth, available supply is not likely to keep up with demand, leading to price increases.

One scenario predicts growth in the world economy of 2 percent per year,

accompanied by an increase of around 1.25 percent in petroleum demand. If OPEC market power is effective and allows petroleum supply to grow at just 1 percent annually, crude oil prices must rise faster than the inflation rate. Petroleum users could draw down their stocks and keep prices down temporarily. But the following quarter, prices would likely be even higher than otherwise.

Aside from supply control, other factors may contribute indirectly to increased energy prices. Although electricity use has grown over the last two decades, many electric utility analysts see a slowing in growth as electric power companies turn to pricing that induces conservation, in-

cluding subsidizing energy-efficient appliances. So the substitution of electricity for fossil fuel will likely be smaller than in the 1980's.

Others believe that most of the inexpensive and relatively simple energy conservation technologies are already in place, making subsequent efficiency gains more costly and slower in arriving. Improvements in automobile mileage and other energy-saving trends—such as replacement of gasoline with diesel power in farming and construction—likely have approached saturation, under current technologies.

Environmental regulations may also inadvertently restrain energy conservation. For example, the increasing oxygenation requirement and removal of lead from gasoline actually require more crude oil per gallon of gasoline. This partially offsets the energy savings of higher mileage per gallon.

Agriculture & Energy Use

Like the U.S. economy in general, the farm sector specifically made some significant, and similar, adjustments in the pattern of energy used from 1974 to 1991. The farm sector adjusted by increasing overall energy efficiency and conserving expensive petroleum and natural gas. In contrast to the general economy, however, farming has decreased electricity use by almost 8 percent.

The most dramatic energy savings in agriculture came from the increased use of less expensive diesel fuel for power equipment such as tractors and combines. As gasoline-powered vehicles were replaced by more energy-efficient diesel-powered equipment, petroleum use per real dollar of equipment expenditure declined. Gasoline use declined almost 65 percent over this period, while diesel fuel use rose only 2.4 percent. Eventually, with adoption of low- and minimum-tillage technology and more efficient diesel fuel, petroleum use declined absolutely.

Environment & Resources

U.S. Farms Rely Less on Gasoline for Energy Percent 1974 1991 change 3,710 1,271 -65.7 Gasoline (bil. gal.) 2,683 2.4 Diesel (bil. gal.) 2.620 1,375 587 -57,3 LP gas (bil, gal.) -56.2 137 60 Natural gas (bil. cu ft.) -7.9 Electricity (bil, kw. hrs.) 38 35 1.224 767 -37.A Total energy (quads) Thousand BTU per -56.6 \$ 1987 (farm GDP) 24.16 10.48 73.2 44,4 Farm GDP (\$ bil. 1987) A quadris a quadrision BTU's (British thermal units).

The general economy made a similar adjustment in industrial uses—substituting more efficient diesel-powered for gasoline-powered equipment. Aggregate data mask this efficiency change, because total gasoline used in the U.S. actually increased 7.8 percent from 1974 to 1991. Mileage efficiency increased, but so did the number of automobiles. As most of this switch to diesel was taking place, the relative price of gasoline to diesel fell. The last several years have seen the relative price of gasoline fall back to levels of the early 1970's.

Rural areas and farming are likely to be affected only marginally by the 1990's energy situation, because they have already made significant adjustments to the energy world of the 1980's and 1990's. Even with unforeseen increases in crude oil prices, the economy and U.S. agriculture appear better able to withstand oil price increases than in the past, because of these adjustments. Non-energy factors, such as weather, fiscal policy, and performance of the dollar in international markets are likely to exert a stronger influence on the economic health of the farm sector and rural America. [Dave Torgerson (202) 219-0782] 🔼

Holiday Greetings
from the staff of
Agricultural Outlook
To our readers

U.S. Economy



Economy Still Sending Mixed Signals

The economy continued to be sluggish in the third quarter despite some positive signs. The advance report on third-quarter real gross domestic product (GDP) indicated that the economy was growing moderately. Real GDP grew between 2.5 and 3 percent at an annual rate, led by a nearly 3.5-percent rise in consumer spending. It was the sixth straight quarterly advance, and the first quarter in which GDP growth exceeded the prerecession peak reached in the second quarter of 1990.

The rise in consumer spending was a welcome sign that private spending might be reviving, but other indicators suggested that the third-quarter momentum might not be sustained. Business investment spending was essentially unchanged in the third quarter, reflecting a general unwillingness to increase capital spending without a signal of strong future demand.

Inventories registered the largest increase since the second quarter of 1990, but the gain could be largely an unintended inventory buildup with production cuts to follow in the fourth quarter. Finally,

U.S. Economy

government purchases rose in the third quarter; a large part of this was a nearly 7-percent rise in federal defense spending, the first increase in five quarters.

Employment Picture Bleak

Payroll employment was relatively flat through the fall. The number of nonfarm payroll jobs rose by only 17,000 from June through October. Manufacturing and construction jobs continued to slide, while jobs in service industries were up. Health and business services accounted for most of the increase in service-sector jobs.

The unemployment rate continued its slow retreat from the 7.8-percent high reached in June. By October, the rate had slipped to 7.4 percent. Much of the decline was due to a shrinking labor force, which fell by almost 600,000 from June to October.

Along with a decline in the number of manufacturing jobs, industrial production remained sluggish, falling in 3 of the 5 months from June through October. In the 12 months ending in October, production rose by about 0.6 percent, and remains 1.3 percent below the level reached at the expansion peak in July 1990. As a result, industrial capacity use has remained low, averaging less than 79 percent so far this year.

Consumer Income Flat

Despite the rise in consumer spending in the third quarter, underlying factors suggest the gain may be short-lived. Consumer income, a major determinant of spending, has grown slowly over the last 18 months. Weakness in income is due largely to job losses and slow wage growth. Excluding government transfer payments, income in real terms has yet to exceed its prerecession level, and overall, real disposable income showed no growth from the second to the third quarter of 1992.

In addition to job losses, other factors have contributed to slow income growth. Consumer interest income, which accounts for about 15 percent of total consumer income, has fallen along with interest rates. Interest income peaked in September 1991 and fell about 6 percent through September 1992.

Along with low income growth, consumers continue to reduce their reliance on debt financing by paying off previously incurred debts. For the most part, consumer installment debt has been falling since the fourth quarter of 1990. With virtually no income gains and reluctance to take on new debt, consumer spending does not appear likely to accelerate soon.

Confidence at Low Levels

Relatively high unemployment and low income growth have dampened consumer confidence, which fell from July through October and is now at about the same level as in the early 1980's. Consumer confidence is believed to be determined largely by economic "fundamentals" like unemployment and inflation.

Current unemployment and inflation, however, are much lower than they were in the early 1980's. The civilian unemployment rate in 1982 averaged 9.7 percent, compared with a 7.6-percent average in the third quarter of 1992. Consumer price inflation averaged 6.2 percent during 1982, compared with only about a 3-percent average rate in the third quarter of this year.

Why the lackluster confidence? First, the election-year debate may have raised overall concerns about the problems facing the economy, and enhanced uncertainty about government policies over the next several years. Confidence jumped in November, but it is too early to judge whether the gain will be sustained.

A second reason confidence has been lower than expected may be found in the composition of unemployment compared with previous recessions. According to the Bureau of Labor Statistics, the ratio of permanent job losses to temporary layoffs associated with the recent recession and sluggish recovery is higher than during other recent downturns.

For example, from mid-1991 through third-quarter 1992, about three jobs were lost permanently for every temporary layoff. During the 1981-82 recession, permanent job losses were only about double the temporary layoffs. In the 1974-75 recession, the ratio was even lower, at about 1.5 to 1. Abnormally low confidence may reflect the unusually large number of permanent job losses in this recession compared with others. And low confidence is contributing to the reluctance to take on new debt, and until recently has kept spending low.

Since Mid-1991, About Three Jobs Were Permanently Lost for Every Temporary Layoff

2-5-1.5-1969 72 75 78 81 84 87 90

Ratio of permanent job losers to those temporarily laid off. Shaded areas show economic downtums.

U.S. Economy

Few Signs of Pickup in the Economy...

Composite Index of Leading Indicators

Percent change from previous year 4 a -2 -4 90 91 92 1988 89

Real GDP Growth Percent change from previous quarter

90

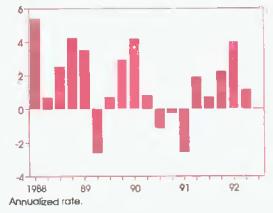
1988 Annualized rate.

-2

Income Growth Flat, Unemployment Still High...

Real Disposable Income

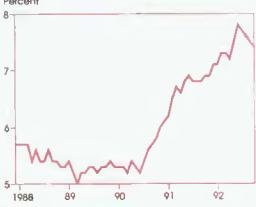
Percent change from previous quarter



Civilian Unemployment Rate

89

Percent



...but Inflation and Interest Rates Remain Comfortably Low

Consumer Price Inflation

Percent change from previous year



Short- and Long-Term Interest Rates

Percent



U.S. Economy

Inflation & Interest Rates Remain Low

The protracted period of economic sluggishness with relatively high unemployment and low industrial capacity use continues to hold down inflation. Consumer prices rose less than 3 percent at an annual rate in the third quarter. Even excluding food and energy prices, inflation continues to be modest. And if current inflation trends continue through the remainder of 1992, consumer prices excluding food and energy will post their smallest rise in 20 years.

However, there are some signs that commodity prices are rising, albeit from relatively low levels. Crude goods prices, excluding food and energy, were up 2.9 percent from year-earlier levels in October, although they remained 7 percent below their mid-1990 levels.

Both short- and long-term interest rates fell in the late summer and fall. In the third quarter, rates on 3-month Treasury bills were the lowest in about 30 years, averaging slightly under 3 percent. Short-term rates are nearly 2 percentage points lower than in October 1991; longterm rates are down but by only about 50 basis points (100 basis points equals 1 percentage point). The wide gap between long- and short-term rates reflects several factors, including relatively high foreign interest rates, some expectation of rising inflation over the next few years, and perhaps most importantly, general uncertainty about the fiscal policy outlook for the next few years.

Dollar Slides, Then Rebounds

U.S. short-term interest rates have been relatively low compared with German short-term rates, which has led to a depreciation of the dollar against the mark. The U.S. discount rate is at 3 percent

versus a discount rate of 8.25 percent in Germany. By contrast, the U.S. rate was higher than the German rate throughout the 1980's and as recently as mid-1989. In September, the dollar fell to a post-World War II low against the mark.

The currency crisis in the European Community actually helped restore some of the dollar's value, particularly against the British pound and the Italian lira, which both fell against the mark. The apparent instability in the European currency market and the Exchange Rate Mechanism (ERM) helped make the dollar more appealing in general.

Further, German interest rates slipped in September, and if they continue to decline, the dollar should appreciate somewhat against the mark. Despite some increase in value, the dollar is likely to remain relatively low vis-a-vis other currencies, helping U.S. exports remain competitive even in the face of slowing demand among major trading partners.

The Outlook: Policy Uncertainty

Slow growth, low inflation, and low short-term interest rates are likely to continue over the next few months. Private forecasters are projecting further sluggishness in Germany, Japan, and Canada, which will tend to keep U.S. exports from rising quickly in the near term. Currently, Germany and Japan are growing at only a third of their 1990-91 rates. Through the first 8 months of the year, exports to these two countries were down more than 1 percent from last year. Exports to Mexico remain a bright spot, up more than 25 percent during the first 8 months of 1992.

In addition, defense purchases are not likely to maintain their third-quarter advance, and low income growth and the drop in personal savings in the third quarter do not point to robust consumer

spending in the near term. The overall outlook for 1993 depends partially on the programs that Congress and the new President agree upon early in the year. This adds an extra element of uncertainty to the outlook for the next 18 months.

In general, private analysts expect an attempt to stimulate the economy, perhaps through introducing some form of an investment tax credit or by increasing spending on infrastructure. The tax credit would likely affect the economy more quickly than would infrastructure spending, which requires more time to target and fund.

Should a stimulus package be enacted early in 1993, it is likely that growth would accelerate in the second half of 1993, and that interest rates would rise. Inflation would probably not respond as quickly as real growth or interest rates, because the recent recession has generated significant excess capacity.

Agriculture & The Macro Outlook

The lackluster outlook for domestic personal income growth suggests little expansion in domestic demand for agricultural goods over the next several months. At the same time, macroeconomic considerations point to little change in export demand. Although the value of the dollar is expected to remain relatively low, foreign growth is likely to be slow over the next year, especially in Japan and Canada, two major agricultural export markets.

On the positive side, low interest rates and low inflation associated with the sluggish economy continue to benefit agriculture. The effects of current macroeconomic conditions on the agricultural sector will show up mainly in expenses, not in enhanced demand.

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Food & Marketing



Food Spending By Female-Headed Households

ouseholds headed by single women constitute a growing proportion of the U.S. population. Between 1970 and 1988, the percentage of urban households with children under age 18 that were headed by single women doubled from 12 to 24 percent. An estimated 60 percent of all children born today will spend some of their childhood in a single-parent household, most often a female-headed household.

A recent study by the Economic Research Service (ERS) indicates that female-headed households spend fewer dollars, but a greater share of their income on food. The study also demonstrates that income is more important than type of household in determining the level of expenditures. The study covered urban households with at least one child under age 18. It was based on data from 1,140 households, 204 of which were headed by single women and 936 of which had a husband and wife in the home.

Fewer Dollars for Food, Larger Share of Income

Female-headed households spent an average of \$89.37 per person per month for food in 1988, based on the U.S. Bureau of Labor Statistics' Continuing Consumer Expenditures Survey. Two-parent households spent \$105.31 per person. Moreover, the food expenditures of female-headed households constituted a larger share of income.

Nationally, food expenditures claim approximately 12 percent of the average household's disposable income. Two-parent households spent about the same as the average household for food in 1988. But female-headed households spent considerably more—over 17 percent of their income went for food.

In general, households with low incomes spend less per person on food, and female-headed households with low income are no exception. In 1988, U.S. households in the lowest 20 percent of the income distribution spent over a third less for food than households in the top 20 percent—\$84.50 per person per month versus \$136.50.

Female-headed households tend to be poorer than two-parent households. Household income per person for female-headed households was less than 60 percent of two-parent household income. Nearly half of the female-headed households in the study had income below the poverty level in 1988, compared with 9 percent of the two-parent households. (Nationally, nearly half of all households classified in poverty in 1986 were headed by women.)

The lower food spending by female-headed households is due mainly to their lower income, and is much less attributable to the fact that they are headed by single women. Another study comparing food expenditures of single and two-parent households separated the single-parent households into poor and nonpoor. Poor families in the study spent less per person for food than nonpoor families. Differences in per-person food expenditures between two-parent households and single-parent households

were clearly attributed to differences in income; nonpoor single-parent households spent more for food per person than all two-parent households.

"Diary" Tracks Household Spending

This study is based on data from the diary portion of the 1988 Continuing Consumer Expenditures Survey (CCES) conducted by the Bureau of Labor Statistics. The diary survey collects data on small, frequently purchased items such as food and beverages over 2 consecutive weeks. Information on household characteristics is also collected at the end of the second week.

It should be emphasized that the CCES is a survey of expenditures, not of consumption. The data include only the value of items purchased during the 2-week period. Items used out of the household's own inventories are not included in the data, whereas items purchased but not used during that 2-week period are included in the data.

Analysis of the data employed a statistical technique—multivariate regression—which measured the influence of a number of different variables—ncluding income, employment, education, race, and Food Stamp participation—on the level of food expenditures.

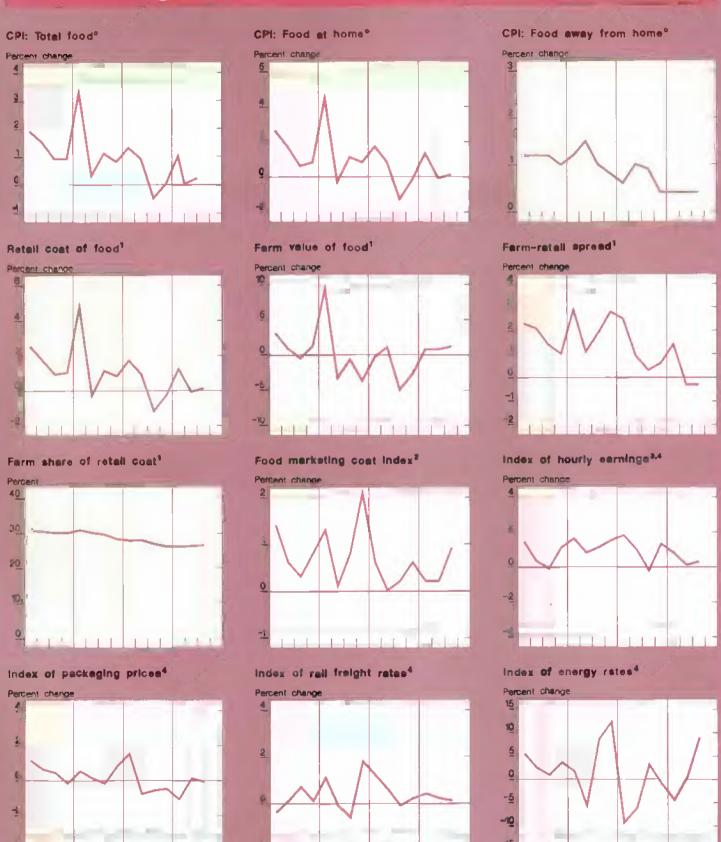
Less Education, Earnings, More Food Assistance

Among the female-headed households, only 22 percent reported another income earner in the household. The absence of a male spouse is a major reason for the low income and high poverty rates among female-headed households.

Yet working female heads of households are also less likely to earn as much as male heads. One reason for lower earnings is that female heads of households

Food & Marketing

Food & Marketing Indicators



^{*}CPF unadjusted. Index based on market basket of farm foods. Index of changes in labor, packaging, transportation, energy, and other marketing costs. In food retailing, wholesaling, and processing. Component of food marketing cost index.
All series expressed as percentage change from preceding quarter, except for "Farm share of retail cost" chart.

Food & Marketing

	Female-headed	Two-parent
Household		
Monthly income	\$1,404.54	\$3,415.06
Monthly income per person	\$515.20	\$888.25
Persons in household	3.03	4.05
Monthly food expenditures	\$253.07	\$411.78
Per-person food expenditure	\$89.37	\$105.31
Food at home	\$59.41	\$67. 28
Food away	\$29.95	\$38,03
	Per	cent
Other earner in household	22	98
Below poverty level	47	9
Receive food stamps	36	3
Female head/spouse		
Black	25	7
Completed high school	79	88
Completed college	10	21
Employed	74	76
Employed full time	55	46

tend to have less formal education.
Among female-headed households, 20 percent of the women had not completed high school while in households with two parents, only 12 percent of female spouses had not completed high school.

Education is strongly related to earnings, and therefore to food expenditures. The study suggests that households in which the female head had at least a high school diploma spent \$16 more per person per month on food than households in which the female head lacked a high school diploma.

Contrary to the hypothesis associating women in female-headed households with low employment, single female heads of households in this study tend to work longer hours and are more likely than their married counterparts to work full time.

The generally lower incomes of female-headed households make these households more likely to be eligible for food assistance. In the study, over a third (36 percent) of female-headed households received food stamps, compared with only 3 percent of male-present households. From a different perspective, whereas

female-headed households represented only 18 percent of the study sample, they made up nearly two-thirds of all households in the study receiving food stamps.

Does Lower Spending Mean Lower Nutrition?

Greater food expenditures do not necessarily mean better nutrition. In the ERS study, 70 percent of the female heads in each type of household worked. And 86 percent of employed women still do most of the cooking, with 91 percent doing most of the shopping.

One of the primary ways of cutting housework time is to spend less time in the kitchen. That means looking for ways to prepare food quickly. Microwave ovens, convenience foods, take-out food, fast food, and home-delivered food can help speed food preparation.

Although the study traced only expenditures, not consumption, other research suggests that lower income households are more efficient food shoppers, obtaining more nutrients per dollar of food. According to USDA's 1977/78 Nationwide Food Consumption Survey, for example, households with incomes below \$5,000 obtained 1,280 calories, 45 grams of protein, and 470 milligrams of calcium per dollar's worth of food used at home. Households with incomes of \$20,000 and above obtained 1,140 calories, 41 grams of protein, and 440 milligrams of calcium. Whether nutritionefficient shopping by lower income households continues today, with a large proportion of women entering the labor force, is not certain.

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Special Articles



U.S. Grain Quality— Is Competitiveness At Issue?

In fiercety competitive global grain markets, how important is quality in competitiveness and market share? The grades and standards used to define U.S. grain quality for export were initiated over 75 years ago. Have changes in the grades and standards allowed them to keep pace with advances in technology that demand grain characteristics to accommodate a multitude of new products?

In this first of a series of articles, AO takes a look at U.S. grain quality, why it matters, and the issues that arise in delivering and communicating quality to foreign buyers. Future articles in the series will look at the effects of grain quality on domestic and international markets for wheat, corn, and soybeans.

Grades & Standards Evolved Slowly

Because the end-use quality of a shipment of grain generally is not readily evident, a system of uniform grades and standards was designed to facilitate grain trade. In 1916 Congress authorized the Secretary of Agriculture to establish, enforce, and revise a uniform system of grades and inspection procedures. These standards were to apply exclusively to foreign grain trade. USDA's Federal Grain Inspection Service (FGIS) has the responsibility to set grades and standards, conduct research

to improve the measurement of grain quality, and enhance the grain grading system. FGIS is the only U.S. entity legally authorized to certify grain grades.

U.S. grades and standards have changed slowly over time. The original 1916 legislation was passed 26 years after the introduction of the first bill proposing federal grades and inspections. Current standards have evolved as processing technology altered demand for various grain characteristics, and improvements were made in the level of grain quality and the ability to measure it.

Because changes in grades and standards follow technological innovation, they tend to reflect somewhat older techniques of grain processing, use, and quality assessment capability than currently in practice, and to focus on the physical condition of the grain. But buyers of grain look for other characteristics. Grains and oilseeds are raw products whose value depends on their contribution to a final or intermediate result—such as the amount and quality of the flour, cakes, bread, pasta, meal, or oil that can be produced, or the value as a feed for livestock.

Grading the Grain

Although many grains and oilseeds can substitute for each other in various products, their distinct characteristics prevent them from being perfect substitutes. Buyers may value various attributes differently, depending on the final product and the production technology being used. The characteristics of interest to end users fall into three broad categories: physical condition, intrinsic characteristics, and uniformity of grains and oilseeds.

Physical condition of the grain is described by quantity, cleanliness, soundness, and wholesomeness. Quantity refers to the marginal product of the grain, such as flour milling yield or livestock weight gained per pound of feed. Each of the factors describing the physical condition affects the usable quantity of grain. Cleanliness is related to quantity, because nongrain material (foreign material and dockage) is generally not suited for processing and often must be removed.

Soundness of the grain refers to the absence or presence of damaged, shrunken, or broken kernels, which can indicate exposure to insects, heat, or other damaging elements. Shrunken and broken kernels also reduce the marginal product of the grain. Soundness directly affects the storability of grain, which tends to decline as moisture content, foreign material, dockage, damaged kernels, and insects in a shipment increase.

Grain wholesomeness reflects the level of substances such as noxious weed seeds or pesticide residues. Handlers, millers, shippers, and importers need to know if the grain has a problem of contamination, if dead or live insects are present, and whether the shipment will meet contract specifications and importers' phytosanitary and quarantine regulations. Current U.S. grades and standards include measures of dead and live insects, insect damage, ergot, smut, and animal filth.

Intrinsic characteristics determine the quality and amount of products that can be obtained from the processing, but not the grade. For example, U.S. wheat has a protein content ranging from less than 8 to 18 percent. Most breads require a protein content of 10-14 percent, and other products require wheat with different protein levels. Bakers look for flour with a protein content within the appropriate range for the product. Similarly, the protein and oil content of soybeans determines the amount of oil and the quality of meal obtainable during crushing.

Intrinsic attributes are difficult to measure without processing the grain, so proxy measures are often used. For instance, wheat class was traditionally used as a proxy measure for intrinsic characteristics. But breeding programs that have helped increase U.S. wheat yields, have tended to reduce the correlation between class and these attributes. Therefore other, more specific, criteria such as protein content have been used as proxy measures of some baking characteristics. Some countries, including Canada and Australia, restrict the use of new grain varieties to assure customers their grain has a specific set of quality attributes; each variety of a grain has a set of intrinsic characteristics associated with it.

Only recently has it been possible to measure some intrinsic grain quality characteristics—like protein content—quickly and efficiently. For this reason, intrinsic characteristics have been reported only in recent years, and then as non-grade determining factors. Wheat protein, for example, has been reported (at buyers' request) as a non-grade determining factor only since 1986. Official measures of soybean oil and protein content, the major determinants of soybean value, have become available just this year.

Uniformity refers to the consistency of grain within a shipment and between shipments. Newer baking and milling plants can operate at a much higher capacity than older facilities, and for optimal performance require grain of a more consistent quality. The commingling of grain of different varieties can increase processing costs, lowering the end-use value of the grain. Such commingling often occurs as grain moves through the U.S. marketing system.

Uniformity can be a source of disagreement when a shipment is divided and sold to different end users. Although the shipment as a whole meets an agreed standard, the individual sub-lots may not. While customers receiving sub-lots exceeding the standard will be satisfied, those receiving lots that do not meet the agreed standards will not. But because the grain was graded and sold as a shipload, complaints from dissatisfied customers can often go unresolved.

Behind the Quality: Good Genes, Careful Handling

Many of the desirable characteristics of grain—storability, wholesomeness, and product yield—are determined by growing conditions, production practices, and grain handling. Grain handling services facilitate trade. Gathering small truckloads of

On the Report Card: Dockage & Foreign Material

Among possible sources of complaints and criticisms about grain quality were problems with blending, foreign material, shrunken and broken kernels, and dockage.

Foreign material describes all nongrain material in a shipment of most grains (except wheat and sorghum) or oilseeds. For wheat and sorghum, nongrain material is divided into dockage and foreign material—nongrain, non-millable material that cannot be easily removed from the grain.

Dockage is nongrain material such as dust, chaff, weed reeds, other grains, and sand, all of which can be readily removed from wheat and sorghum. However, processors uch as millers and crushers have little difficulty removing practically all foreign material from wheat, feed grains, and soybeans.

Although dockage is reported on the grade certificate for all inspections, dockage is not a grade-determining factor for wheat. Critics argue that this encourages more dockage in wheat. However, some importers of U.S. grain specify maximum dockage levels in contracts to obtain cleaner grain, and penalize exporters for levels beyond those specified in the contract.

Blending is acknowledged as a cost-effective means of providing grain of a specified quality. Critics claim that any set of grade-determining factor limits will result in shipments containing grain just below the factor limits for foreign material. Thus they argue, grain shipments can contain levels of foreign material or other undesirable substances that barely meet contract specifications. Moreover, critics suggest that current factor limits lead to less clean U.S. grain exports, reducing U.S. competitiveness in international grain markets. Critics cite FGIS statistics on shipments that have shown levels of foreign material and total defects at the grade factor limits. However, for most shipments, foreign material and total defect levels are well below the grade limits.

heterogenous grain into shiplots, and handling the grain in standardized lots, provides most buyers with the quantity and quality of grain needed for their operations. Grain handling practices such as drying, cleaning, aerating, and fumigating are used by elevators to reduce risk of biological degradation and lower the nongrain content of a shipment.

Growing conditions and production practices can affect the amount of chemical residues, insect and other damage, and nongrain material such as weed seed and dirt in a shipment. Nongrain content and damaged grain tend to reduce the quantity or

product yield of grain in each lot, increase storage costs, lower quality, and increase the risk of losses from insects and mold.

The genetic quality of seed determines the potential quality—intrinsic characteristics—of grain. Characteristics like protein content can be influenced by growing conditions and handling practices, but base quality is genetically determined. Since intrinsic grain properties figure so importantly in the value of the grain, processors are often interested in the variety. In some markets, end users and producers write contracts setting premiums for specific genetic varieties.

Do Importers Buy U.S. Quality?

It is important for grain markets to communicate quality clearly to the end user. The domestic market does not require the official grades and standards, although grades and standards are often used as a basis for premiums and discounts. But grain quality is apparently communicated efficiently between buyers and sellers on the domestic market. Exchanges occur based on criteria and inspection methods agreed to by participants. Grain is acquired using regional purchasing strategies, contract production, and other domestic market outlets. Domestic buyers are able to identify grain well suited for their purposes, and therefore few complaints arise about the quality. Complaints that do occur tend to be handled quickly between the agents involved.

Exports Claimed Over Half of U.S. Wheat Use in 1991



Country and sub-terminal elevators include production and carryin Feed includes residual.

On the other hand, communication of grain quality in export markets has been called into question by some. In export markets, contract specifications, official USDA grades and standards, and class are used to communicate the quality of U.S. grain. This grading information, along with an FGIS inspection and grade certificate, is used to assure that purchases meet buyers' needs.

Official complaints from purchasers of U.S. grain shipments are used to draw attention to disputes. Over the last 4 years, complaints have covered between 0.3 and 1.1 percent of the grain exported, although in 1987 they reached a high of 3.7 percent. Some observers have suggested that the decline in U.S. grain exports in the 1980's is partly attributable to dissatisfaction with the quality of U.S. grain.

Why does the domestic market appear to be operating more efficiently—without standards—than the export market which has specified standards? A large part of the reason is the variation in familiarity of foreign processors with U.S. grades and standards. Some foreign buyers are not familiar with U.S. grades and standards. It is not uncommon for a complaint to be based on a misunderstanding arising from differences in U.S. laboratory or sampling practices, or from terminology.

Foreign buyers also have more difficulty identifying the source of the grain received. A domestic processor can often identify where the grain was grown, within a few counties, and knows the attributes of grain from the area. Frequently, domestic buyers send agents to survey grain quality in different regions and make purchases based on the results of these surveys.

Although modern information systems can keep importers of U.S. grain informed of weather and other factors that influence grain quality, blending and other handling practices make it difficult to identify the region where the purchased grain was grown. A buyer can elect to preserve the identity of grain from the field to the export terminal, but this can significantly increase the price of a grain shipment, which in turn would make U.S. grain less competitive.

Another advantage of domestic buyers is ease in communication. In domestic markets, shorter distances make transportation faster, less complicated, and less costly. The shorter time between purchasing and receiving grain speeds communication and provides better feedback. Quickly identifying the existence, source, and nature of problems increases the likelihood of agreement and quick resolution of problems.

With export shipments, however, grain is in transit over longer distances. Increased transit time tends to delay the detection of a problem, and combined with the presence of more intermediaries, increases the difficulty in identifying and resolving a problem.

Understanding Differences Improves Communication

A first step toward improving communication with foreign grain buyers is to understand the differences that exist between countries' various grain standards and grading practices. Competitors' grain production, marketing, and regulatory systems differ from the U.S. with respect to incentives for maintaining and enhancing grain quality. Differences exist in grain handling (including cleaning, blending, drying and storage); policies and institutions regulating grain quality; and government price and storage policies that affect quality incentives.

For instance, in most competing nations grain is evaluated, dried, and cleaned either on the farm or at the country elevators. Australian wheat grades are determined at the point of first sale, encouraging on-farm cleaning by producers. French and Argentine grain is generally cleaned and dried by operators at the country elevator. Canada uses a different system and cleans at export locations. Also, most competitors do not blend grain to meet contract standards. Many grain exporting countries, including the U.S., offer price policies that explicitly include quality-based premiums and discounts.

Each major U.S. competitor—including France, Canada, Brazil, Argentina, and Australia—has one or more regulations governing grain quality, such as government control of seed variety and development, variety identification mechanisms, and minimal receival standards for grain. In France, Canada, and Australia, marketing by variety is common due to the existence of variety identification mechanisms.

All five major U.S. grain competitors have minimal receival standards. In the U.S., by contrast, producers can deliver any quality of grain to commercial elevators. It is discounted appropriately, but once low-quality grain is in the system, it is difficult to keep it segregated or to prevent blending with higher-quality grain destined for export. In Argentina and Brazil, grains not meeting specified minimums are rejected at the first point of sale. In France, grains not meeting export contract specifications can be rejected by the receiving elevator. In both Canada and Australia, wheat not meeting minimum standards is denoted feed-quality grain and must be marketed as such.

Recognizing the need to understand competitors' grain marketing systems, however, does not imply the need to adopt those standards for U.S. grain. Each set of grain handling and quality assurance practices carries costs and benefits. Before modifying U.S. grades and standards, those costs and benefits need careful examination, to avoid imposing unnecessary costs for little improvement in quality.

Is There Room for Improvement?

Critics of the current system of grades and standards argue that the system could compromise U.S. competitiveness—by failing to address a number of quality concerns of foreign customers. These critics contend that the current system could even lead ultimately to official complaints lodged over U.S. grain quality. Others, however, point out that the U.S. system of grades and standards is only one of many levels of quality control in the U.S. grain sector, and that changes in grades and standards alone are not likely to ensure quality competitiveness.

Providing better information to customers would reduce complaints, and could increase market share or grain prices. The 1990 Food, Agriculture, Conservation and Trade Act mandated USDA's FGIS to study the benefits and costs of providing cleaner grain to the domestic and export markets. Congress' intent was to understand more fully the economic impacts that would likely occur in response to legislated changes in U.S. grades and standards.

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Upcoming Reports from USDA's Economic Research Service

The following are December release dates for summaries of the ERS reports listed. Summaries ore issued at 3 p.m. Eastern time.

December

- 14 Agricultural Income, & Finance
- 15 Sugar & Sweetener
- 16 Tobacco Yearbook
- 18 Agricultural Outlook



FSU Agriculture: Weathering a Period Of Flux

Policymakers in the 15 newly independent states of the former Soviet Union (FSU) have continued to move the economy more toward a market system in 1992. Restructuring the planned economy involves resource shifts that will temporarily idle some resources, including land and labor. The shift will also eventually include some transfer of property from state and collective control to private ownership. Restructuring is likely to be very difficult, given the distorted resource allocations that resulted from the massive consumer and producer subsidies under central planning.

Reforms will have far-reaching effects on consumers, farmers, processors, and distributors. A year after the breakup of the USSR, two hopeful signs for the FSU are higher grain output following last year's drought, and the emergence of private production and exchange of some agricultural commodities.

Grain Output Up In Largest Republics

Grain output in the 15 former Soviet republics will amount to just under 183 million tons in 1992, according to USDA's November projection—a nearly 20-percent increase from last year. Higher yields account for the production increase—total grain area is estimated about the same as last year. The forecast

(which includes wheat, coarse grains, and milled rice, on a cleanweight basis, but excludes pulses, buckwheat, and miscellaneous grains) is still below 1990's near-record output (206.6 million metric tons) and the 1986-90 annual average of 186 million.

Almost 90 percent of the FSU's grain is produced by three republics: Russia contributes over half, followed by Ukraine at about 20 percent, and Kazakhstan, with over 15 percent. Most of the rise in 1992 FSU output is due to a dramatic rebound in grain output in Kazakhstan. While grain output is up over 10 percent in Russia and around 5 percent in both Belarus and Ukraine, Kazakhstan's production will be almost triple its 1991 drought-ravaged crop of 11.4 million tons. In the Baltics, however, grain output is projected down sharply this year due to drought.

State Feed, Livestock Sectors Decline in 1992

State livestock inventories and output continue to decline this year throughout the FSU as the sector faces a continuing fall in feed supplies, rising feed and production costs, and decreased consumer demand for livestock products because of rising prices and falling incomes.

In late August, Russian Agriculture Minister Viktor Khlystun reported that Russia's state hog farms were receiving only 58 percent of feed needs, and its state poultry complexes only 64 percent. Total state mixed-feed production in Russia during January-August 1992 was 25 percent below last year at that time, due largely to much-reduced grain production and procurements in 1991. In addition, Russian production of forage crops is again down this year, with supplies of coarse feeds (hay, haylage, and straw) reportedly down about a third and succulents (silage and greenchop) down by a half as of mid-August.

Potatoes—another major feed crop—are also expected down from last year. On the other hand, state output of oilmeal and cake as of mid-year was up slightly from the same time in 1991. Overall, as of early September, Russia's supply of fodder per head of cattle was reportedly 23 percent below last year.

Contraction in the Russian state livestock sector from January to August 1992 mirrored the FSU's overall contractions. On September 1, Russian Federation state inventories of cattle, swine, and poultry were down 6, 13, and 23 percent from the same time last year. Declining inventories are resulting from reduced breeding, increasing death losses, and higher slaughter.

Russian state production of cattle and poultry meat (live-weight basis) for the 8-month period fell by 22 percent, milk production declined 17 percent, and output of eggs decreased by 12 percent. In Ukraine, state-sector data for January-June 1992 show meat output down 22 percent, milk production down 23 percent, and egg output down 19 percent from the same period last year.

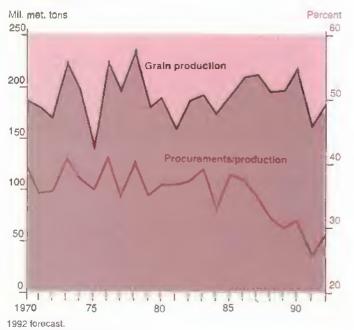
Falling output is attributable mainly to declining output per animal. In Russia, state sector yields per animal continued to fall, with milk yields per cow down 12 percent and eggs per hen down 4 percent. The declines represent not only less feed per head, but poorer quality rations. The state previously forced farmers to sell grain and oilseeds at set prices to state agencies. Farmers complained that they were later forced to buy poorquality feeds back at relatively high prices.

Farmers are now feeding more grain directly, or bartering surplus grains to other farms, which are also feeding the grain with little processing. Rations have become even more unbalanced and lacking in important feed additives than those produced by the state mixed-feed industry.

In the Baltics, the livestock sector has been especially hard hit. Insufficient production of feed grains was compounded by a protracted drought this year, as well as interruptions in feed imports. The result is significantly increased feed supply problems, which has led to the increased export of live animals and could still lead to distress slaughter.

On the brighter side, growth in animal husbandry by an emerging private sector is partially offsetting the poor performance of the state livestock sector. As of July 1, private inventories of cattle and swine in Russia grew by 7 and 5 percent from a year ago, according to Rosgoskomstat. Poultry inventories in the private sector likely grew even more. Rising private inventories mean the net decrease in Russia's total cattle inventories is only 3 percent from last year, and the decline in total hog inventories is 9 percent.

State Procurement Share of Grain Production Has Trended Downward



Sources: USDA and Narkhoz SSSR.

State Meat Procurements Fall

State meat procurements in the FSU republics showed a more dramatic decline than output levels. However, the drop in live-stock products delivered to the state marketing sector does not necessarily translate into an equal decline in overall supplies. More and more farms are selling meat and dairy products directly, bypassing state procurement—through the traditional collective farm markets, new commodity markets, and by barter to other enterprises.

Decreased consumption of livestock products, due to falling real incomes and higher prices, is reflected in a growing surplus of meat stocks in the state wholesale trade network, despite the lower state procurements. As of July 1, overall state meat stocks in Russia, for example, were close to 300,000 tons, or 50 percent more than last year on this date. The butter stock surplus was reported at about 100,000 tons.

Incentives To Raise State Grain Supplies

By the time harvest began this year, farmers were unusually reluctant to sell grain to the state. Several factors were at work, including low state procurement prices, expectations that grain procurement and input prices would rise, failure by the state to deliver on payments owed from past years, and farmers' preference for goods rather than rubles as payment for grain.

Most milling and mixed-feed facilities receive their grain from state grain supplies. The state procured about 75 million tons of grain each year in 1986 and 1987, accounting for about 40 percent of production. State procurements amounted to only 32 percent of the near-record harvest of 206.6 million tons in 1990, and only about 25 percent of 1991's drought-reduced crop of just over 150 million tons.

Faced with a near boycott of grain sales to the state, republics introduced a combination of measures to increase farm grain sales to the state. Measures during the 1992 harvest, similar to past years, included increased procurement prices (as farms had anticipated), special bonuses for above-plan sales, restrictions on sales of grain to commodity exchanges and nonlocal areas until state sales plans were met, threats to cut off state input subsidies and withdraw credits unless sales to the state were made, and possible confiscation of grain and fines for farms selling grain through other channels before meeting state quotas. In addition to these measures, a lack of adequate on-farm grain storage facilities is likely to encourage farms to sell additional grain eventually to the state.

Russia raised its procurement prices again substantially in August as part of its effort to increase grain sales to the state. Prices for ordinary or "third-class" wheat were raised by 20 percent, from 10,000 rubles per ton to 12,000 rubles.

Russia's Farm Structure

There are roughly 12,000 each of state and collective farms in the Russian Federation. In principle, state farms are state enterprises, and collective farms are cooperatives in which all assets except land are owned by members. Differences between the two types of farms all but disappeared in the 1970's and 1980's, as their procedures for paying workers and for obtaining access to state credits became almost identical.

Collective farms in Russia have on average 6.600 hectares, about 4,000 of it cropped land. The average collective farm has 312 full-time-equivalent workers, for an average of 21 hectares of agricultural land per worker (including meadows and pasture, as well as arable land).

The state farms average about 9,000 hectares. Of this area, about half is sown to crops. With approximately 420 full-time-equivalent workers per state farm, the land/labor ratio amounts to about the same as on the collectives. Although total agricultural area is larger than on collective farms, much of the difference is grazing land, pasture, forest, or wasteland. For example, the grain area in the state sector exceeds that in the collective sector by only 14 percent. While state and collective farms tend to be diversified enterprises, producing both crop and livestock products, diversification is more evident in the collective farm sector than in the state sector.

A private sector existed even under communist rule, but prior to 1991, it was limited primarily to household plots of farm employees and smaller gardens of city dwellers. The most significant in relative contribution to total output were the bousehold plots of farm workers. These averaged a scant 0.5 hectare (about 1.2 acres), although size varied considerably according to local conditions.

This traditional private sector held about 3 percent of the arable land, most of which was planted to potatoes, vegetables, and fruits. Small household plots held 17 percent of cattle, 19 percent of pigs, 25 percent of sheep, and 83 percent of goats. Households produced little of their own feed and each depended on the large farm for supplies, as well as tractor services, transportation to market, and in many cases, marketing.

Since 1991 a new private sector has been emerging. As of October 1992, over 150,000 private farms were registered, and these new independent private farms (*fermy*) hold about 3 percent of Russian agricultural land.

(In early August, \$1 equaled about 150 rubles; by November, \$1 equaled almost 400 rubles.) First-class durum wheat was set at 24,000 rubles per ton, and first- and second-class hard wheats

were set at between 15,000 and 20,000 rubles per ton. One estimate places the cost of procurement to the Russian government at the new prices at about 400 billion rubles.

Although total 1992 FSU-15 state grain procurements have already surpassed the 1991 level of nearly 41 million tons by over 15 million, they will not reach the 1990 level of 68 million tons in state purchases.

In Russia, state grain procurements as of early November had already surpassed last year's roughly 22 million tons. But they are unlikely to reach the republic's target of 29 million. Ukraine had hoped for at least 14.5 million tons out of a planned 17 million for this year, compared with 1991 purchases of 11.3 million tons. But Kazakhstan will far exceed 1991 procurements of only 3.2 million tons, having already procured about 15 million tons as of the end of October.

The effect of higher procurement prices on the retail price of bread is a major concern. Prices of higher quality white bread could easily double, reaching 40 rubles per loaf or more. According to the head of the former Russian Committee for Bread and Bakery Products, 1992 state subsidies to stabilize retail prices of bread could reach about 50 billion rubles.

Food Grain Consumption Up, Meat Falls Behind

FSU food consumption patterns in 1992 continue to mirror the marked changes that began after 1989, when per capita consumption of meat reached its peak. Up to 1989, food consumption patterns reflected policies aimed at raising consumption of livestock products while reducing consumption of grain products.

Around 1990, consumption patterns reversed, with food grain consumption picking up again. The shift from meat to grains accelerated in 1992, as price liberalization resulted in steep increases in meat prices, and deep decreases in consumer subsidies. Meat prices have risen from about 3.5 rubles per kilogram in 1986 to about 110 rubles per kilogram in 1992. As a consequence, official per capita meat consumption in Russia has fallen to around 60 kilogram in 1992 from 75 kilograms in 1989. This has brought per capita consumption closer to levels of other countries with similar incomes. And with meat consumption falling, human consumption of food grain products has increased—more than the 3-5 percent rise that country data suggest. The reason is that previously, large amounts of bread had been fed to livestock, but was reported in the per capita consumption estimates.

While overall food use of grain has increased, feed use of grain has fallen sharply, because of reduced grain availability following the low production and procurement levels in 1991. Tight supplies, which imports did not entirely alleviate, caused inventory drawdowns, which have in turn reduced feed demand further. Compounding difficulties has been the dramatic rise in input prices for the livestock sector, and high retail prices for

meat, which have produced additional hardships for livestock producers.

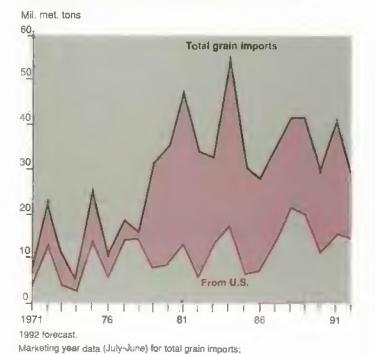
In August, Russian President Boris Yeltsin created the Federal Grain Fund, reportedly to ensure grain supplies to areas not able to provide for themselves, such as Moscow, St. Petersburg, the northern regions, and military centers. The Fund will obtain grain from state grain procurements in surplus producing regions, from foreign imports, and through purchases from other FSU republics, especially Kazakhstan. How this new organization will differ from the former All-Union Fund remains to be seen. In 1992, the fund is expected to distribute about 20.5 million tons of grain to needy areas.

FSU Grain Imports Likely To Decline

Total 1992/93 FSU-15 grain imports are estimated down from last year. As of November 10, USDA projects grain imports by the FSU for 1992/93 (July-June) of 31 million tons, down from almost 42 million in 1991-92. Wheat will make up 16.5 million tons, coarse grains 13.8 million, and rice 800,000 tons. The decline in grain imports in 1992/93 is due to increased domestic production and procurement, lower feed consumption, and difficulties with debt servicing primarily because of hard currency earnings constraints.

During the first 8 months of 1992, the Russian Federation imported close to 17 million tons of grain—45 percent greater than during the same time last year. Imports for calendar 1992 are expected to total nearly 25 million tons, close to calendar

Large Share of FSU Grain Imports Comes from U.S.



fiscal year data for imports from U.S.

1991 import estimates (including inter-republic trade). Russia has reportedly contracted for imports of 3 million tons from Kazakhstan, and is currently negotiating for additional purchases.

Official statements concerning Russian Federation imports for 1992/93 indicate lower expected volumes, reflecting increased production and the intent to restructure imports (and implicitly feed consumption) away from grain. On August 18, Russia's Agriculture Minister Khlystun indicated that Russia will import 10 million tons of grain. On September 10, Vice President Aleksandr Rutskoi was quoted as saying that Russia will need to import 12-15 million tons of grain by the next harvest. In a speech the following day, President Yeltsin stated that Russia would cut its grain imports to 7-10 million tons in 1993.

Kazakhstan appears to be the only country of the FSU that will export a substantial amount of grain this year. Contracts reportedly have been signed with Russia, Belarus, and several of the Central Asian nations. The Kazakhs also hope to sell grain on the world market for hard currency. On the other hand, several FSU countries that suffered from adverse weather are looking to the West for grain imports and humanitarian aid. For example, the Baltic countries, where production is expected down by almost half from an average of 5-6 million tons a year, have appealed to the EC and the U.S. for assistance.

U.S. Food Aid Initiatives Announced

During fiscal 1992, the former USSR imported approximately 15-16 million tons of grain from the U.S., including more than 8 million tons of wheat and 6 million tons of corn. In fiscal 1991, over 2 million tons of U.S. wheat and 9 million tons of U.S. corn was exported to the FSU. Most of the grain purchased since 1991 has been with GSM-102 credit, which currently guarantees repayment of 100 percent of the principal, and interest at the prevailing rate for 52-week Treasury bills.

To date, fiscal 1991 and 1992 GSM-102 allocations to Russia and the other republics total close to \$6 billion. Included in this total is part of a \$1.15-billion package containing GSM credit guarantees and food aid announced for Russia on September 14. The first allocation of this GSM credit package made during fiscal 1992, totaling \$100 million, was distributed among wheat, com, and protein meal. On October 9, USDA announced the second installment of Russia's credit guarantees, which totaled \$525 million. This allocation will be used for the purchase of \$235 million of feed grains, \$190 million of wheat, \$40 million of soybean meal, \$30 million of pork, and \$30 million of poultry. This is the first time that pork and poultry sales can be made with GSM-102 credit. In addition, the first allocation of food aid to Russia was announced by USDA on October 9.

The allocation provides \$134 million for purchases of rice, butter, pork, corn, baby food, wheat and wheat products, whole dry milk, chicken, and peanuts.

Ukraine is the only other republic directly to receive GSM-102 credit. During fiscal 1992, the U.S. provided \$110 million in credit guarantees to Ukraine. On October 19, USDA announced the allocation of \$200 million in GSM-102 credit to finance the sale of U.S. agricultural products to Ukraine during fiscal 1993. These credits cover the sale of \$138 million of feed grains and \$39 million of wheat.

Other F\$U republics have received U.S. assistance. For example, on August 25, USDA announced a \$145-million food aid package which included allocations to nine republics: Armenia, Belarus, Georgia, Kyrgyzstan, Moldova, Tajikistan, Estonia, Lithuania, and Latvia. Funding for this assistance is available from fiscal 1992 Title I of P.L.480 and Food for Progress budgets, and food purchased is expected to be shipped during calendar 1992.

On September 2 the U.S. announced the targeting of 5.5 million tons of wheat for export to the FSU under the Export Enhancement Program (EEP) during the period July 1, 1992 to June 30, 1993. As of early November, over 2 million tons of wheat sales was registered.

USDA also announced EEP invitations for wheat purchases involving countertrade, allowing U.S. wheat exporters to sell wheat to FSU nations via third parties outside the FSU. These third parties are able to barter with FSU nations, purchasing raw materials and goods and using the hard currency to buy wheat for the trading partner.

On August 25, the first allocation of 200,000 tons was announced, of which over 150,000 tons of wheat was sold. This initial invitation was closed and a new invitation announced on September 4 for 500,000 tons of wheat. As of November 4, 332,000 tons of wheat had been sold. Other commodities covered by EEP invitations which permit countertrade include wheat flour, barley, rice, vegetable oil, and frozen pork. However, as of early November, no sales have been registered for these commodities under this special EEP invitation.

Fiscal 1992 wheat EEP sales to the FSU reached 8.4 million tons, with total bonuses to exporters of \$350 million, for an average EEP bonus of \$41 per ton. Fiscal 1991 EEP wheat sales totaled 3.2 million tons, at an average bonus of \$45. Since fiscal 1987, when EEP sales were first registered, total EEP wheat sales to the FSU come to 33 million tons, with an average bonus of \$34.

The fiscal 1993 outlook for U.S. agricultural exports to the FSU is mixed. U.S. grain exports to the FSU could fall—USDA is projecting lower overall FSU grain imports for 1992/93. Total FSU imports will be affected by domestic production and consumption, both of which are being acutely affected by the current economic reform programs. Additionally, the availability of credit guarantees will largely determine import source, quantity, and mix in the short run. While total fiscal 1993 U.S. agricultural sales to the FSU could be lower than in fiscal 1992, GSM credit, P.L.480, and EEP will all help maintain U.S. market share in the region.

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December Releases from USDA's Agricultural Statistics Board

The following reports are Issued at 3 p.m. Eastern time on the dates shown.

December

- 3 Egg Products
- 4 Dairy Products
- Celery (1 p.m. report)
 Pouttry Slaughter
- 10 Cotton Ginnings Crop Production
- 11 Farm Labor
- 14 Milk Production
 - Turkey Hatchery
- 15 Potato Stocks Vegetables
- 18 Cattle on Feed
- 21 Cattish
- 22 Cold Storage
 - Eggs, Chickens & Turkeys
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Statistical Indicators

Summary Data

Table 1,—Key Statistical Indicators of the Food & Fiber Sector.

	1991			1992				1993	
	Annual		II	IH	٤٧F	Annual F	1 F	II F	Annual F
Prices received by farmers (1977=100)	146	141	141	138	138	140		-	
Livestock & products Crops	161 130	154 127	156 124	159 ⁴ 117	159. 1 17	1 57 121			_
Prices paid by farmers, (1977±100) Production items Commodities & services, Interest, taxes, & wages	173 189	171 188	174 189	175- 189	174 189	174 189	-	Ξ	=
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	168 86.3 81 8	166 85 81	168 87 81	=		=	_	_	=
Market basket (1982–84=100) Retail cost Farm value Spread Farm value/retail cost (%)	137 106 154 27	138 102 1 58 26	138 103 157 25	138 104 158 26	=	=		=	=
Retail prices (1982–84=100) Food At home Away from home	137 136 138	138 137 140	138 137 140	138 137 141	139 137 142	138 137 141		=	
Agricultural exports (\$ bil.) 2/ Agricultural Imports (\$ bil.) 2/	37.5 22, 6	11,3 6.1	10.1 6.2	8.8 5.4	11.3 5.8	41,5 23.5	=		_
Commercial production Red meet (mil. lb.) Poultry (mil. lb.) Eggs (mil. doz.) Milk (bil. lb.)	39,402 24,885 5,758 148.5	10.086 6.309 1,458 38.0	9,915 6,624 1,451 39,1	10,405 6,815 1,463 37.7	10,492 6,570 1,500 36,9	40,898 26,318 5,871 151.7	10,249 6,515 1,460 38.2	10,286 6,880 1,440 39,4	41,832 27,090 5,855 151.9
Consumption, per capita Red meat and poultry (lb.)	203 2	50.7	51.4	53 0	53.8	208.9	51.9	52.5	212.3
Corn beginning stocks (mil. bu.) 3/ Corn use (mil. bu.) 3/	7,760.7	1,521 2 2,461.1	6 ,541.1 1,984.5	4,561.0 1,827.8	2,738.6 1,641.4	7.914.9	1,100.5	_	8,285.0
Prices 4/ Choice steers—Neb. Direct (\$/cwt) Barrows & glite—IA, So, MN (\$/cwt) Broilers—12-city (cts./b.) Eggs—NY gr. A large (cts./doz.) Milk—all at plant (\$/cwt)	74.28 49.69 52.0 77.5 12.24	75,77 39,55 50,2 63,8 12,97	75.94 45.9 5 2.3 62.0 12.87	73.88 44.39 54.5 64.5 13.47	72-76 39-43 50-54 68-72 13.35- 13.75	74-76 42-44 51-53 64-66 13.15- 13.30	70-76 37-43 49-55 63-69 12.25- 13.25	72-78 40-46 50-56 65-71 11.25- 12.25	71-77 39-45 49-55 69-75 11.80- 12.80
Wheat—KC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot 41–34 (cts./lb.)	3.18 2.47 5.69 69.7	4.50 2.66 5.75 51.4	3 94 2.59 5.93 56.4	3.45 2.26 5.49 57.3					=
	1984	1985	1986	1987	1988	1989	1990	1991	1992 F
Gross cash income (\$ bil.) Gross cash expenses (\$ bil.)	156.1 118.7	157 9 110.7	152.8 105.0	165. 2 109.4	172.7 114.6	180.2 121.2	186.4 125.2	183 125	180~185 125-129
Net cash income (\$ bit.) Net farm income (\$ bit.)	37.4 26.1	47 1 28.8	47.8 31.0	55.8 39.7	58.1 41.1	58.9 49.9	61.3 51.0	58 45	54-57 42-47
Farm real estate values 5/ Nominal (\$ per acre) Real (1982 \$)	801 7 69	713 657	640 568	59 9 518	632 530	661 533	668 517	681 506	685 491

^{1/} Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept fiscal years ending with year indicated. 3/ Sept.-Nov. first quarter; Dec.-Feb. second quarter; Mar.-May third quarter; Jun.-Aug. fourth quarter; Sept.-Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages, Jan.-Dec. 5/ 1990-92 values as of January 1. 1986-89 values as of February 1. 1984-85 values as of April 1. F = forecast, -- = not available.

U.S. & Foreign Economic Data

Table 2.—U.S. Gross Domestic Product & Related Data

		Annual		1	991		1992	
	1989	1990	1991	III	IV	1-	II R	ШP
			\$ billion (qua	rterly data sea	son ally ad justi	e d a t annual re	ites)	
Gross domestic product Gross national product	5.250.8 5,266.8	5,522.2 5,542.9	5,677.5 5,694.9	5,713.1 5,726.4	5.753.3 5.764.1	5,840.2 5,859.8	5,902.2 5,909.3	5.967.1
Personal consumption expenditures Durable goods Nondurable goods	3,523.1 459.4 1,149.5	3,748.4 464.3 1,224.5	3.887.7 446.1 1.251.5	3,914.2 453.0 1,255.3	3.942 9 450.4 1,251 4	4,022.8 469.4 1,274.1	4.057.1 470.6 1,277.5	4,105.0 481.6 1,290.1
Clothing & shoes Food & beverages Services Gross private domestic	200.4 565.1 1.914.2	208.9 601,4 2,059.7	209.0 617.7 2.190.1	212.0 617.9 2,205.9	206.8 620.0 2,241.1	216.5 627.9 2,279.3	217.4 623.2 2,309.0	224.7 623.0 2,333.3
investment Fixed investment Change in business inventories. Net exports of goods & services	832 3 798.9 33.3 -79 7	799.5 793.2 6.3 -68 9	721.1 731.3 -10.2 -21.8	732.8 732.6 0.2 –27.1	736.1 726.9 9.2 16.0	722.4 738.2 -15.8 -8.1	773.2 765.1 8.1 -37.1	776 9 761.5 15.4 -37.3
Government purchases of goods & services	975 2	1,043.2	1,090.5	1,093.3	1,090.3	1.103.1	1,109.1	1.122.5
	-		1987 \$ billion	(quarterly dai	a seasonally a	djusted at ann	uai rates)	
Gross domestic product Gross national product Personal consumption	4,838.0 4,852 7	4,877.5 4,895.9	4,821.0 4,836.4	4.831.8 4.843.7	4,838.5 4,848.2	4,873.7 4,890.7	4,892 4 4,899.1	4.924 5
expenditures Durable goods Nondurable goods Clothing & shoes Food & beverages Services	3.223.3 440.7 1,051.6 187.8 515.0 1,731.0	3.260.4 439.3 1,056.5 185.9 520.8 1,764.6	3,240.8 414.7 1.042.4 181.3 515.8 1,783.7	3,251.2 419.4 1,044.8 183.7 515.0 1,787.0	3,249.0 416.1 1,035.6 177.5 515.3 1,797.4	3,289.3 432.3 1,049.6 184.1 518.9 1,807.3	3,288.5 430.0 1,045.6 184.4 513.5 1,812.9	3,316.1 439.0 1,050.0 191.1 510.8 1,827.0
Gross private domestic investment Fixed investment Change in business inventories Net exports of goods & services Government purchases of	784.0 754.2 29.8 -73.7	739.1 732.9 6.2 -51.8	661.1 670.4 -9 3 -21.8	672.0 671.4 0 6 -31.6	676.9 669.3 7.5 –20.5	668.9 681.4 -12.6 -21.5	713.6 705.9 7.8 -43.9	721 2 706.4 14.7 -51.5
goods & services	904.4	929.9	941.0	940.2	933.1	937.0		938.8
GDP implicit price deflator (% change) Disposable personat income (\$ bil.) Disposable per, income (1987 \$ bil.) Per capita disposable per, income (\$) Per capita dis, per, income (1987 \$)	4,4 3,787.0 3,464.9 15,307 14,005	4.3 4.042 9 3,516.5 16,174 14,068	4.1 4,209.6 3,509.0 16,658 13,886	2.4 4,227.6 3,511.5 16,706 13.876	2.4 4.284.9 3,530.8 16,885 13,913	3.1 4,360.9 3,565.7 17,143 14,017	2.7 4,411.8 3,576.0 17,297 14,021	2.0 4,427.3 3,576.4 17,308 13,982
U.S. population, total, incl. military abroad (Mil.) * Civilian population (mil.) *	247.3 245.1	249 9 247.8	252.7 250.6	252.9 250.8	253.7 251,6	254.3 252.3	254.9 253.0	255.7 253.7
		Annual		1991		1	992	
	1989	1990	1991	Sept	June	July	Aug	Sept
			N	lonthly data se	asonally adju	sted		
Industrial production (1987=100) Leading economic Indicators (1982=100)	108.1 144.4	109.2 143.8	107.1 143.6	108.4 145.0	108.5 148.8	109.3 149.0	108.9 148.6	108.6 148.2
Civilian employment (mil. persons) Civilian unemployment rate (%) Personal income (\$ bil. annual rate)	117.3 5.2 4,380.3	117.9 5.4 4.66 4.2	11 6.9 6. 6 4, 828 .3	117.1 6.7 4.863.4	117.6 7.7 5,038.5	117.8 7.6 5,049 1	117.7 7.5 5,041 3	117.7 7.4 5.077.5
Money stock-M2 (daily avg.) (\$ bil.) 1/ Three-month Treasury bill rate (%) AAA corporate bond yield (Moody's) (%) Housing starts (1.000) 2/	3,227.3 8.12 9.26 1,376	3,339.0 7.51 9.32 1,193	3,439.9 5,42 8,77 1,014	3,411.9 5,25 8,61 1,020	3.463.4 3.70 8.22 1,147	3,460.7 3.28 8.07 1,100	3,469,4 3,14 7,95 1,239	3,479.0 2,97 7,92 1,256
Auto sales at retail, total (mil.) Business inventory/sales ratio Sales of all retail stores (\$ bil.) Nondurable goods stores (\$ bil.) Food stores (\$ bil.) Eating & drinking places (\$ bil.) Apparel & accessory stores (\$ bil.)	9.9 1.53 145 1 90.8 28.8 14.5 7.6	9.5 1.53 150 6 96.0 30 2 15.2 7.9	8.4 1.55 151.8 98.0 30.9 15.8 8.0	8.5 1.53 154.3 99.1 31.8 16.0 8.0	8.9 1.50 159.0 101.3 32.2 15.8 8.4	8.3 1.49 160.8 102.2 32.3 15.9 8.7	8.0 1.52 160.7 102.5 32.6 16.0 8.6	8.3 161.1 102.4 32.1 16.0 8.7

^{1/} Annual data as of December of the year listed. 2/ Private, including farm, R = revised P = preliminary. → = not available.

Note: * Population estimates based on 1990 census.

Information contact: Ann Duncan (202) 219-0313.

Table 3.—Foreign Economic Growth, Inflation, & Exports

	1983	1984	1985	1986	1987	1988	1989	1990	1991 E	1992 F	1993 F	Average 1981-90
7	ji				Алпы	al percent	change					
World, less U.S. Real GDP	2.4	-3.6	3.4	3.0	3.5	4.4	3.5	3.1	1.0	1.5	2.9	3.0
GDP deflator	8.3	7.8	8.0	7.5	9.0	10.6	10.8	24.8	11.2	42.6	38.8	10.5
Real exports	2.2	9.5	3.9	2.1	5.9	7.8	8.7	6.4	3.8	3 8	4.3	5.3
Developed less U.S.		4.0	D-0									
Real GDP	2 1	3.2	3.4	2.7	3.2	4.5	3.6	3.5	1.6	1.4	2.4	2.9
GDP deflator	6.2	4.8	3.8	3.9	2.8	3.6	4.2	4.6	4.1	4.0	3.5	5.0
Real exports	2.7	10.6	5.4	-0.1	4.1	7.3	9.7	7.8	4.8	4.1	3.8	5.7
Eastern Europe & C.I.S.												
Real GDP	3.6	4.0	2.2	3.6	2.6	3.8	1.5	-3.2	-12.2	-11.3	-1.1	2.2
GDP deflator 1/	4 2	5.0	6.4	8.1	12.8	35.3	41.3	192.7	38.3	200.0	89.7	32.2
Real exports	4.6	6.2	-4.0	9.1	7.6	8.5	-5.3	-6.9	-22.1	-9.1	0.8	2.6
Developing					4.5					4.0	5.3	3.7
Real GDP	3.1	4.7	4.0	3.9	4.5	4 4	3.6 19.1	3.5 16.9	2.5 1 5. 4	4.6 10.6		28.9
GDP deflator	38.7	37.3	36.4	25.5 7.5	33.1	26.4 9.4	9.0	5.5	6.2	5.3	12.5 6.2	4.9
Real exports	0.4	7.2	1.7	7.5	11.1	8.4	8.0	5.0	0.2	5.3	0.2	4.0
Asia	8.2	7.9	5.9	7.2	8.8	9.1	5.5	5.7	5.8	5.5	5.7	7.0
Real GDP GDP deflator	6.3	7.5	5.9	4.4	7.8	8.2	6.1	8.1	7.2	7.2	7.3	6.7
Real exports	6.4	11.3	2.9	19.0	15.8	14.9	8.2	7.3	9.2	9.0	11.0	9.2
Latin America	9.4	11.0		1 4.4		7-4.0						
Real GDP	-2.7	3.7	3.6	4.4	3.0	0.0	1.3	-0.1	2.6	2.7	4.2	1.2
GDP deflator 1/	30.3	40.8	69.0	62.8	125.5	66.5	35.9	29.6	24.5	13.7	15.8	49.6
Real exports	2.0	12.0	2.0	0.0	8.0	6.8	10.4	3.9	3.1	2.5	2.1	5.2
Africa												
Real GDP	1.1	2.2	2.3	1.4	0.6	2.9	28	0.9	2.3	2.6	3.0	1.7
GDP deflator	16.7	12.2	12.2	8.4	25.3	17.4	19.5	15.3	18.0	13.8	16.9	14.5
Real exports	-53	-1.5	3.5	-1.0	0.0	2.9	5.0	7.5	6.1	1.7	1.5	-2.0
Middle East												4.0
Real GDP	4.5	1.2	1.7	-3.6	-0.1	-0.2	2.5	5.8	-10.3	7.3	7.5	1.9 7.7
GDP deflator	-4.5	1.2	3.1	5.7	14.6	9.3	13.2	19.6	2.2 17.2	9.3 10.9	12.7 36.0	0.1
Real exports	-19.6	-6.7	-7.1	-38	24.6	48	21.0	5.0	17.2	10.8	30.0	0.1

^{1/} Excludes Yugoslavia, Argentina, Brazil, & Peru starting in 1989. E = estimate. F = forecast.

Information contact: Alberto Jerardo, (202) 219-0717.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

		Annual		1991			1	992		
	1989	1990	1991	Oct	May	June	July	Aug	Sept R	Oct P
					1977 = 100	0				
Prices received All farm products	147	149	146	142	141	140	138	139	138	138
All crops	134	127	130	120	123	122	117	117	117	117
Food grains Feed grains & hay	156 128	123 123	115 118	128 115	148 124	139 124	129	123 110	130 109	134 104
Feed grains	123	118	115	114	124	122	115	108	107	100
Cotton	98	107	108	104	86	94	81	89	87	87
Tobacco	149	152	161	159	145	145	139	148	1 53 85	162 82
Oil-bearing crops Fruit, all	102 194	94 188	91 268	84 272	86 203	87 194	83 153	82 162	159	154
Fresh market 1/	205	197	299	297	213	198	150	160	156	150
Commercial vegetables	145	142	138	118	123	120	137	155	156	177
Fresh market	144	144	132	113	118	113	137	163	184	19 6 125
Potatoes & dry heans Livestock & products	186 160	189 170	140 161	103 158	111 157	119 157	176	183 180	130 158	159
Meat animals	174	193	186	176	179	177	158 177	178	176	177
Dairy products	140	141	128	139	133	138	138	139	139	139
Poultry & eggs	137	131	123	120	113	114	117	119	120	120
Prices paid Commodities & services.										
Interest, taxes, & wede rates	178	184	189	189	191	191	192	192	192	192
Production Items	165	171	173	172	174	174	175	175	175	174
Feed	136	128	123	123	-	_	123			118
Feeder live#took	194	213	214	203	_		204	_		208 162
Seed Fertilizer	165 137	165 131	153 134	163 132			182			128
Agriculturel chemicals	132	139	151	154			160			180
Fuels & energy	180	204	203	200		_	206	_		205
Farm & motor supplies	151	154	154	159	****	_	160	white		161 262
Autos & trucks Tractors & self-propelled machinery	223 193	231	244	24B 21 6	_		262		==	224
Other machinery	208	218	228	230			234			235
Building & tencing	141	143	146	147	_		150	-	-	152
Form services & cash rent	161	165	170	170	_		171	_	1-	171
Int. Payable per acre on farm real estate debt	17 6 151	174 156	172 160	172 160		_	166 165	_	_	166 165
Taxes payable Per sore on farm real estate Wage rates (seasonally adjusted)	185	191	201	183		_	212		_	212
Production tems, interest, taxes, & wage rates	167	172	175	173	_		176			176
Ratio, prices received to prices paid (%) 2/	83	81	77	75	74	73	72	72	72	72
Prices received (1910-14=100)	673	681	666	651	643	640	630	633	631	631 1,324
Prices paid, etc. (parity Index) (1910–14=100) Parity ratio (1910–14=100) (%)2/	1,221 55	1,265 54	1.299 51	1.29g 50	dente.		1,322	_	_	48

^{1/} Fresh market for noncitrus; fresh market å processing for citrus. 2/ Ratio of Index of prices received for all farm products to Index of prices paid for commodities å services, interest, taxes, å wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, å October. Reservised. Per preliminary. — not available.

Information contact: Ann Duncen (202) 219-0313.

Table 5.—Prices Received by Farmers, U.S. Average

		Annual 1	1/	1991				1992		
CROPS	1989	1990	1991	Oct	May	June	July	Aug	Sept R	Oct P
All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt)	3.72	2.61	3.05	3.07	3.66	3.42	3,14	3.01	3.21	3.31
	7.35	6.70	7.70	7.61	7.11	6 93	6,94	6.61	6.40	6.44
	2.36	2.28	2.40	2.31	2,49	2.47	2,33	2.15	2.15	1.99
	3.75	3.79	4.15	3.93	4.31	4.22	3,80	3.77	3.88	3.32
All hay, baled (\$/ton) Soybeens (\$/bu.) Cotton, upland (cts./lb.)	85.40 5. 69 63.6	80.60 5.74 67.1	71.00 5.60	68.90 5 49 62.7	74.20 5.87 52.2	75.50 5.94 56 9	71.80 5.59 55.3	69.60 5.40 53.8	58.50 5.35 52.6	70. 50 5.12 52 4
Potatoes (\$/cwt)	7.36	8.08	5.05	4.06	4 42	4.88	7.59	6.84	5.11	4.80
Lettuce (\$/cwt) 2/	12.60	11.50	11.40	10.80	11.30	9.81	13.10	19.90	20.80	17.20
Tomatoes fresh (\$/cwt) 2/	33.20	27.40	31.90	20.50	16.70	24.20	27.80	24.50	30.10	64.90
Onlons (\$/cwt)	11.40	10.50	12.50	10.00	12.60	9.73	12.20	15.90	12.40	12.20
Dry edible beans (\$/cwt)	28.50	18.50	15.60	14.40	16.70	15.40	17.20	18.90	20.20	21.20
Apples for fresh use (cta./lb.) Pears for fresh use (\$/ton) Oranges, all uses (\$/box) 3/ Grapefrult, all uses (\$/box) 3/	13.9 336.00 7.08 4.41	20.9 360.00 6.16 5.86	25.1 385.00 7.35 5.26	24.1 399 00 9.62 5 96	25.0 437. 00 6.73 3.98	25.7 5.14 4.02	27.1 390.00 2.32 2.87	30.4 276.00 1.65 3.32	29.3 426.00 1.37 3.73	22.4 398.00 1.79 7.09
LIVESTOCK Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambs (\$/cwt)	.69.70	74 80	72.90	70.40	71.90	70.20	70.60	71.80	71.70	71.80
	91.80	96 50	100.00	93.90	89.60	88.40	90.10	90.60	87.40	88.30
	43.20	54.00	48.80	43.80	44.80	46.40	44.40	43.90	41.90	42.60
	67.30	56.00	52.60	51.70	68.80	67.00	61.40	56.00	56.70	55.80
All milk, sold to plants (\$/cwt) Milk, manuf, grade (\$/cwt) Brollers (cts./lb.) Eggs (cts./doz.) 4/ Turkeys (cts./lb.) Wool (cts./lb.) 5/	13 56	13.74	12.28	13.50	12.90	13 20	13.40	13.50	13.50	13.50
	12.38	12.34	11.05	12.60	11.90	12.20	12.40	12.40	12.30	12.10
	36.1	32.4	31.0	31.0	31.7	31.6	33.8	34.6	31.8	32.9
	70.0	70.4	66.9	62.0	51.7	53.0	52.3	53.4	59.5	56.9
	40.0	38.4	38.5	37.0	37.6	37.4	38.2	37.9	37.1	38.6
	124.0	80.0	55.0	59.0	90.3	87.1	74.1	65.0	52.2	69.5

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Excludes Hawaii. 3/ Equivalent on-tree returns. 4/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 5/ Average local market price, excluding incentive payments. P = preliminary. R = revised. --- = not available.

Information contact: Ann Duncan (202) 219-0313.

Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual	1991				1	992			
	1991	Oct	Mar	Apr	May	June	July	Aug	Sept	Oct
				1	1982-84=10	0				
Consumer Price Index, all Items	136.2	137.2	139.3	139 5	139.7	140.2	140.5	140. 9	141.3	141.8
Consumer Price Index, less food	136.1	137.4	139.5	139.7	140.1	140.7	141.1	141.4	141.8	138.9
All food	138.3	136.0	138.1	138 1	137.4	137.4	137.2	138.0	138.5	138.3
Food away from home	137.9	138.9	140.1	140.2	140.4	140.7	140.8	141.0	141.2	141.3
Food at home	135.8	134.9	137.5	137 4	136.2	136.1	135.7	136.9	13 7 .4	137.2
Meats 1/	132.5	131.9	131.1	130.2	130.3	131.0	130.0	130.6	130.9	131.1
Beef & veal	132.4	131.0	133.4	133.2	132.6	132.7	130.7	131.4	131.8	132.6
Pork	134.1	134.1	127.0	125.1	126.8	127.9	129.1	129.5	129.4	128.7
Poultry Fish Eggs Dairy products 2/ Fats & oils 3/ Fresh fruit	131.5	131.0	128.2	129.2	129.1	130.7	132.1	133 7	134.0	133.3
	148.3	147.8	152.6	153.5	151.6	149.1	150.4	151.6	151.2	151.4
	121.2	118.0	106.0	105.1	104.2	100.7	104.7	102.2	111.5	109.3
	125.1	125.3	127.8	127.4	127.0	127.8	128.3	129.2	129.7	130.1
	131.7	131.1	129.8	129.6	130.4	130.2	129.9	129.5	129.9	129.9
	193.9	194.3	188.7	187.4	190.0	182.9	173.3	181.4	189.2	182.1
Processed fruit	131.8	131.3	138.8	140.0	140.0	138.3	138.4	138.2	138.0	136.4
Fresh vegetables	154.4	137.6	172.7	175.4	149.6	146.9	148.1	153.8	152.8	155.2
Potatoes	144.6	143.7	132.1	135.6	136.7	141.0	155.9	164.7	153.1	143.0
Processed vegetables	128.5	128.1	128.6	128.6	128.8	129.0	129.2	130.2	129.1	129.1
Cereals & bakery products	145.8	148.5	149.7	150.6	150. 7	151.6	152.4	153.1	152. 6	152.8
Sugar & sweets	129.3	129.6	132.9	133.0	132. 9	133.3	133.8	133.8	133. 7	133.7
Beverages, nonalcoholic	114.1	112.8	115.3	114.4	114.5	115.0	113.9	114.1	114.2	114.1
Apparel Apparel, commodities less footwear Footwear Tobacco & smoking products Beverages, alcoholic	127.4	130.4	132.3	132.0	131.8	129.0	126.8	128.1	131.7	133.7
	120 9	122.2	124.6	125.6	128.0	125.4	124.4	124.9	120.3	127.1
	202.7	205.7	213.5	214 9	220.0	219.2	220.5	221.5	224.0	225.6
	142.8	144.4	148.7	147.2	147.4	147.5	147.7	147.6	148.0	148.2

^{1/} Beef, yeal, lamb, pork, & processed meat. 2/ includes butter. 3/ Excludes butter.

Information contact: Ann Duncan (202) 219-0313.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

		Annual		1991			1	992		
	1989	1990	1991	Sept	Apr	May A	June	July	Aug	Sept
					1982 =	100				
All commodities	112.2	116.3	116.5	116.1	116.3	117.2	117.8	117.8	117.6	117.8
Finished goods 1/	113.6	119.2	121.7	121.4	122.4	123.2	123.7	123.7	123.5	123.3
All foods 2/	117.8	123.2	122.2	120.7	120 5	120.8	120.4	120.2	120.6	120.6
Consumer foods	118.7	124.4	124.4	122.7	122.8	123.1	123.0	122.9	123.2	123.2
Fresh fruit & melons Fresh & dried vegetables Dried fruit Canned fruit & juice Frozen fruit & juice	113.2 116.7 103.0 122.7 123.9	118.1 118.1 106.7 127 0 139.0	129.9 103.8 111.8 128.6 116.3	135.3 87.7 111 8 129.6 111.4	85.6 104.1 114.5 136.0 134.8	87.4 98.8 115.1 136.7 130 1	79.7 85.8 114.3 136.3 125.7	70.8 99.8 113.9 136.3 123.5	78.1 119.3 113.8 135.5 123.1	72.8 107.6 113.8 133.5 121.7
Fresh veg. exci. potatoes Canned veg. & julces Frozen vegetables Potatoess Eggs for fresh use Bakery products	103.9 118.6 115. 5 153.8 3/ 135.4	107.8 116.7 118.4 157.3 3/ 141.0	100 2 112.9 117.8 125.7 3/ 146.6	81.8 111.4 117.6 110.6 3/ 147.8	99.7 108.9 118.4 112.5 76.0 151.7	89.9 109.8 116.3 104.7 71.9 152.7	81,1 109.6 115.6 108.6 71.0 1 53 .0	85.5 109.5 115.3 195.1 71.7 153.2	115.5 109.4 115.2 172.4 73.7 153.5	115.1 108.8 116.8 115.8 85.8 153.4
Meats Beef & veat Pork Processed poultry Fish Dairy products Processed fruits & vegetables Shortening & cocking oil Soft drinks	104 8 108.9 97.7 120.4 142.9 110.6 119.9 118.8 177.7	117.0 118.0 119.8 113.6 147.2 117.2 124.7 123.2 122.3	113.5 112.2 113.4 109.9 149.5 114.6 119.8 116.5 125.5	108.5 104.8 108.7 112.8 138.9 115.9 118.8 115.6 124.6	107.4 111.9 97.0 107.3 168.0 115.4 122.0 114.0 125.0	108.9 112.1 101.4 109.7 154.1 116.9 122.0 116.1 125.9	107.2 108.0 101.7 110.3 158.9 118.8 121.1 117.5 127.9	108.5 106.4 102.5 109.8 156.5 118.9 120.7 115.0 127.2	106.0 107.1 100.7 112.0 148.1 120.1 120.4 111.3 124.6	108.0 107.4 100.0 111.8 149.8 120.2 119.8 112.8 125.0
Consumer finished goods less foods	108.9	115.3	118.7	119.0	119 6	120.9	122.0	122.0	121.6	121.4
Beverages, alcoholic Apparel Footwear Tobacco products	115.2 114.5 120.8 194.8	117.2 117.5 125.6 221.4	123.7 119.6 128.6 249.7	123.3 120.2 129.5 254.9	126.3 121.9 131.5 273.7	126.7 121.8 131.6 283 2	126.3 121.8 132.0 282.8	127.0 122.2 131.8 283.4	126.6 122.2 132.3 265.3	125.7 122.3 132.6 273.9
Intermediate materials 4/	112.0	114.5	114.4	114.6	113.8	114.5	115.3	115.3	115.3	115.6
Materials for food manufacturing Flour Refined sugar 5/ Crude vegetable oils	112.7 114.6 118.2 103.7	117.9 103. 6 122.7 115.8	115.3 96.8 121.6 103.0	114.8 98.6 121.2 101.7	113.6 112.4 120.2 96.4	114.8 111.3 119.9 101.6	115.3 112.9 120.4 107.3	114.4 106.8 120.4 97.3	113.8 100.9 120.9 89.4	114.3 102.9 119.8 92.8
Crude materials 6/	103.1	108.9	101.2	0.80	8.89	101 2	101.5	101.3	100.9	102.0
Foodstuffs & leedstuffs Fruits & vegetables & nuts 7/ Grains Livestock Poultry, live	111.2 114. 8 108.4 108.1 128.8	113.1 117.5 97.4 115.6 118.8	105.5 114.7 92.0 107.9 111.2	103.0 108.1 92.4 101.1 11 8 .7	105.5 92.7 102.7 106.7 102.8	108.4 91,3 103.5 108.0 116.1	107.3 83.0 105.7 105.3 110.2	105.0 85.2 95.0 103.7 124.1	103.7 95.9 88.5 104.2 120.5	103.0 89.1 90.8 103.4 111.8
Fibers, plant & animal Fluid mlik Oliseeds Tobacco, leaf Sugar, raw cane	107.8 98.8 123.8 93.8 115.5	117.8 100.8 112.1 95.8 119.2	115.1 89.5 106.4 101.1 113.7	103.5 94.3 107.0 104.1 114.1	89.0 91.7 107.9 94.4 112.4	93.4 95.3 113.6 94.4 111.4	96.2 97.3 117.4 94.4 110.4	102.0 99.7 1 09. 2 94.4 110.4	96.6 100.2 104.9 93.1 111.7	93.8 99.5 105.1 105.1 112.8

^{1/} Commodities ready for sale to utimate consumer. 2/ Includes all raw, intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). 3/ New index beginning Dec. 1991. 4/ Commodities requiring further processing to become finished goods. 5/ All types & sizes of refined sugar. 6/ Products entering market for the first time that have not been manufactured at that point. 7/ Fresh & dried. R = fevised.

Information contact: Ann Duncan (202) 219-0313.

Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

		Annual		1991			,	1992		
	1989	1990	1991	Sept	Apr	May	June	July	Aug	Sept
Market basket 1/	104.0	122 5	427.4	*				-	*	•
Retail cost (1982–84=190) Farm value (1982–84=100)	124.6 107.1	133.5 113.1	137.4 106.1	136.6 102.1	139.0 104.2	137.8 102.6	137.6 102.7	137.2 103.7	138.4 104.5	139.1 104.7
Farm-retail spread (1882-84=100)	134.1	144.5	154.2	155.1	157.7	156 7	156.3	155.3	156.6	157.6
Farm value-retail cost (%) Meat products	30.1	29.7	27.0	26.2	26.3	26.1	26.1	26.5	26.4	26.4
Retail cost (1982-84=100)	116.7	128 5	132.5	131.9	130.2	130.3	131.0	130.0	130.6	130 9
Farm value (1982-84±100)	103.6	116.8	110.0	102.9	105.7	107.5	107.8	107.2	104.7	104.8
Farm-retail spread (1982-84=100) Farm value-retail cost (%)	130.2 44 9	140.4 46.0	155.6 42.0	161.7 39.5	155 3 41.1	153.7 41.8	154.8 41.7	153.4 41.8	157.1 40. 6	157.6 40.6
Dairy products	44 0	40.0	42.0	38.5	41,1	41.9	41.7	41.0	40.0	40.0
Retail cost (1982–84=100)	115.6	126.5	125.1	125.3	127.4	127.0	127.8	128.3	129.2	129.7
Farm value (1982~84=100) Farm-retail spread (1982~84=100)	99.1 1 30.8	101.7 149.5	90. 0 157.5	92 1 155.9	91.5 160.5	93.9	96,1 157.0	97.8 156.4	99.1 157.0	99.3 157.7
Farm value-retail cost (%)	41.1	38.5	34.5	35.3	34 5	1 <i>57.5</i> 35.5	36.1	36.6	36.8	36.7
Poultry										
Retail cost (1982–84=100) Farm value (1982–84=100)	132.7 117.1	132.5 107.6	131.5 102.5	131.0 106.5	129 2 97.5	129.1 104.1	130.7 103.7	132.1 110.1	133.7	134.0 104.1
Farm-retail spread (1982-84=100)	150.6	161.1	184.9	159.3	165.7	157.9	161.7	157.4	112.1 158.5	168.4
Farm value-retail cost (%)	47.2	43.5	41.7	43.5	40.4	43.2	42.5	44.6	44.9	41.6
Eggs Retail cost (1982-84=100)	118.5	124.1	121.2	118.0	105.1	104 2	100.7	104.7	102.2	111.6
Farm value (1982-84=100)	107.5	108.0	100.9	93.7	73.7	67.0	69.9	68.6	70.7	84.1
Farm-retail spread (1982-84=100)	138.1	153.2	157.6	161.7	161.5	171.0	156.0	169.6	158.9	161.1
Farm value-retall cost (%) Cereal & bakery products	58.3	55.9	53.5	51.0	45.1	41.3	44.6	42.1	44.4	48.4
Retail cost (1982-84=100)	132.4	140.0	145.8	148.5	150 6	150.7	151.6	152.4	153.1	152.6
Farm value (1982-84=100)	101.7	90.5	65.3	87.2	99.0	99.6	96.5	90.9	87.7	89.6
Farm-retail spread (1982-84=100)	136. 7 9.4	146.9 7.9	154.3 7.2	154.8 7.3	157.8	157.8	159.3 7.8	161.0 7.3	162.2	161.4
Farm value-retail cost (%) Fresh fruits	5.4	7.8	1.2	7.3	8.0	8.1	7.0	1.3	7.0	7.2
Retail cost (1982-84=100)	154.7	174.6	200.1	203.0	192.0	197.2	188.0	178.3	183.7	195.3
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	108.5 1 76 .0	128.3 195.9	174.4 211.9	166.7 219.8	114.5	116.3	121.4	116.7	119.3	127 6
Farm value-retail cost (%)	22 2	23.2	27.5	25 9	227.8 18.8	234.6 18. 6	218.7 20.4	208.7 20.7	213.4 20.5	226.6 20 6
Fresh vegetables										
Retall costs (1982−84=100) Farm value (1982−84=100)	143.1 123.3	151.1 124.4	154.4	137. 6 66.6	175.4 156.7	149 6	146.9	148.1	153 8	152 8
Farm-retail spread (1982-84=100)	153.2	164 9	110.8 176.8	163.8	185.0	194.7 177.8	88. 6 176. 9	110.3 167.5	128.5 166.8	125.5 1 6 6.8
Farm value-retail cost (%)	29.3	28.0	24.4	21.4	30.3	21.5	20.5	25.3	28.4	27 9
Processed fruits & vegetables Retall cost (1982-84=100)	125.0	132.7	130.2	129.8	135.0	135.0	134.1	124.2	124.0	134 0
Farm value (1982-84=100)	132.4	144.0	121.6	119.9	133.2	132.8	131.2	134.2 129.9	134 6 129.9	128.9
Farm-retail spread (1982-84=100)	122.7	129.1	132.9	132.9	135.5	135.7	135 0	135.6	136.1	135.6
Farm value-retail costs (%) Fats & oils	25.2	25.8	22.2	22.0	23.5	23.4	23 3	23.0	22 9	22.9
Retail cost (1982–84=100)	1212	126.3	131.7	131.1	129.6	130.4	130 2	129.9	129.5	129.9
Farm value (1982–84=100)	95.6	107.1	98.0	95.2	91.5	96.9	99.4	89.2	88.7	69.1
Farm-retail spread (1982–84=100)	130.6 21.2	133.4	144.2	144.3	143.6	142.7	141.5 20 5	144.9	144.5	144.9
Farm value-retail cost (%)	21.2	22.8	20.0	19.5	19.0	20.0	20 3	18.5	18.4	18.4
		Annual		1991			1	992		
Basi Choice	1989	1990	1991	Oct	May	June	July	Aug	Sept	Oct
Beef. Choice Retail price 2/ (cts./lb.)	265.7	281.0	288.3	277.2	285.8	287.1	283.8	280.1	284.1	285.6
Wholesale value 3/ (cts.)	178.8	189.6	182.5	174.5	183.4	180.8	173.6	175.8	175.9	177.5
Net farm value 4/ (cts.)	157.6	168.4	160.2	149 8	164 1	159.4	156.9	159.0	159.6	160.1
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	108.1 88.9	112.6 91.4	128.1 105.8	127.4 102.7	121.7 102.4	127.7 106.3	126.9 110.2	121.1 104.3	124.5 108.2	125.5 108.1
Farm-wholesale 6/ (cts.)	19.2	21.2	22.3	24.7	19.3	21.4	16.7	16.8	18.3	17.4
Farm value-retail price (%)	59	60	56	54	57	56	55	57	56	56
Pork Retail price 2/ (cts./lb.)	182.9	212.6	211.9	207.7	196.4	197.1	200.6	200.4	199.6	198 4
Wholesale value 3/ (cts.)	99.2	118.3	108.9	104.6	101.2	104.8	101.6	101.7	99.6	98.8
Net farm value 4/ (cts.)	70.4	87.2	78.4	69 4	73.3	76.1	72.2	71.6	67.4	67.1
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	112.5 83.7	125.4 94.3	133.5	138.3	123.1	121.0	128.4	128.8	132.2	131.3
Farm-wholesale 6/ (cts.)	28.8	31.1	103.0 30.5	103.1 35.2	95.2 27.9	92.3 28.7	98.8 29.6	98.7 30.1	100.0 32.2	99. 6 31. 7
Farm value-retail price (%)	38	41	37	33	37	39	36	36	34	34

^{1/} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholesale (boxed beef) & wholesale cuts (pork) equivalent to 1 ib. of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 ib. of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, and in-city transportation. 6/ Charges for livestock marketing, processing, & transportation.

Information contacts: Denis Dunham (202) 219-0870, Larry Duewer (202) 219-0712.

Table 9.—Price Indexes of Food Marketing Costs_

		Annual			1991			1992	
	1989	1990	1991	II	ßI.	IV	ţ.	II	III P
					1 967 =100°				
Laborhourly earnings									
& benefits	379 5	393.2	409.7	409.7	408.8	414.3	417.7	418.1	419 2
Processing	390.3	404.4	420.4	420.9	418.8	425.2	430.5	432.6	435.1
Wholesaling	409.1	422.0	443.8	444.7	443.2	446.6	454.3	456 5	460.0
Retailing	355.6	369.5	383.9	383.0	383.7	389.1	392.2	390.0	385 3
Packaging & containers	364.6	367 6	371.2	372.0	369.8	368.0	364.0	364 3	364.1
Paperboard boxes & containers	323.7	323.9	320.3	318.4	317.9	322.5	324.4	324.4	325 1
Metal cans	443.2	455.0	470.5	469.2	471.7	473.0	477.4	479.6	477.7
Paper bags & related products	409.2	413 0	410.9	419.5	411.4	389.6	351.0	351.7	348.5
Plastic films & bottles	313.2	307.1	310.7	311.6	306.8	306.3	308.6	307.9	310.2
Glass containers	409.9	427.3	446.0	445.9	446.2	446.3	446.1	445.6	444.0
Metal foil	274.4	258.4	251.6	257.5	245.0	240.8	241.4	240.1	241.5
Transportation services	404.9	411.3	422.6	423.2	422.7	423.7	425.4	426.5	426.9
Advertising	409.1	433.0	460.1	458.0	462.2	486.7	477.6	479.6	486.0
Fuel & power	619.4	671.4	855.7	636.8	656.8	649.6	620.4	622.6	678.3
Electric	458.9	477.7	508.3	505.3	530.6	506.9	497.1	495.9	536.2
Petroleum	592.1	744.8	649.8	599.5	626.4	634.4	584.2	580 3	685.6
Natural gas	1.070.9	1,071.0	1,065.0	1,056.0	1,051.5	1,062.6	1,049.6	1.038.3	1053.5
Communications, water & sewage	247.3	253.1	261.7	260.4	263.5	264.5	285.3	265.8,	26 7.5
Rent	277.1	273.0	282.7	283.6	262.3	280.7	279.9	279.7	2 76 .3
Maintenance & repair	410.7	426.7	442 7	441.1	445.4	448.5	451.8	452.6	455.2
Business services	388.3	405.6	425.4	423.9	428.4	432.2	436. 6	438.1	442.5
Supplies	321.4	321.1	319.3	319.5	314.6	317.5	314.5	314.9	320.9
Property taxes & insurance	439.7	462.2	480.5	477.4	482.4	488.0	491.3	492.4	497.8
Interest, short-term	172.1	A155.5	114.5	118.5	114.1	98.2	.82.0	82.4	66.7
Total marketing cost Index	384 8	397.6	409.3	408 3	409.0	411.4	411.8	412.5	416.2

^{*} Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for at-home consumption. P = preliminary.

Information contact: Denis Dunham (202) 219-0870.

Livestock & Products

Table 10.—U.S. Meat Supply & Use

							Cons	umption	Primary
	Beg. stocks	Produc- tion 1/	Imports	Total supply	Exports	Ending stocks	Total	Per capita 2/	market price 3/
			Mill	lion poun ds 4/				Pounds	
Beef 1990 1991 1992 F 1993 F	335 397 419 400	22.743 22.917 23.150 23.492	2,356 2,406 2,410 2,400	25.434 25.720 25.979 26.292	1.006 1.188 1,345 1.480	397 419 400 350	24.031 24.113 24.234 24.462	87.8 66.8 66.4 66.4	78.56 74.28 74-76 71-77
Pork 1990 1 99 1 1992: F 1993: F	313 296 393 385	15,354 15,999 17,265 17,851	898 775 650 655	16,565 17,0 70 18,308 18,891	239 263 410 460	296 393 385 375	16,030 16,394 17,513 18,056	49 8 50.4 53.2 54.3	55.32 49.69 42–44 39–45
Veal 5/ 1990 1991 1992 F 1993 F	4 6 7 8	327 306 313 310	0 0 0	331 312 320 316	0 0	6 7 6 4	325 305 314 312	1.1 1.0 1.0 1.0	96.51 99.95 89-91 85-91
Lamb & mutton 1990 1991 1992 F 1993 F	6 8 6	363 363 353 362	59 60 66 60	430 431 425 430	3 3 2	6 6 8 9	419 422 414 419	1.5 1.5 1.4 1.4	65.54 53.21 59-61 57-63
Total red meat 1990 1991 1992 F 1993 F	660 707 825 799	38,787 39,585 41.081 42. 015	3.313 3,241 3,128 3,115	42,760 43.533 45,032 45.929	1,248 1,474 1,758 1,942	707 825 799 738	40.805 41,234 42.475 43,249	120.1 119.6 122.1 123.2	
Broilers 1990 1991 1992 F 1993 F	38 26 36 30	18,430 19,591 20,824 21,525	000	18,468 19,617 20,860 21,555	1,143 1,261 1,400 1,435	26 36 30 35	17.299 18,320 19,430 20,085	61.1 63.9 67.1 68.7	54.8 52.0 51-53 49-55
Mature chicken 1990 1991 1992 F 1993 F	189 224 274	523 508 536 522	O. O.	713 732 810 822	25 28 31 30	224 274 300 230	4 64 4 29 4 79 562	1,9 1.7 1,9 2.2	
Turkeys 1990 1991 1992 F 1993 F	236 306 264	4,514 4,603 4,764 4,843	0.0.0	4.750 4,909 5.028 5.163	54 103 156 170	306 264 320 275	4,390 4,541 4,552 4,718	17.6 18.0 17.8 18.3	63.2 61.3 58-60 57-63
Total poultry 1990 1991 1992 F 1993 F	463 557 575 650	23,468 24,701 26,123 26,890	0 0 0	23.931 25.258 26,698 27.540	1,222 1,392 1,587 1,635	557 575 650 540	22.152 23,291 24,461 25,365	80.5 83.6 86.8 89.2	
Red meat & poultry 1990 1991 1992 F 1993 F	1,123 1,264 1,400 1,449	62.255 64,286 67,204 68,905	3,313 3,241 3,128 3,115	66.691 68,791 71,730 73,469	2,469 2,867 3,345 3,577	1,264 1,400 1,449 1,278	62.958 64.525 66,936 68,614	200.6 203.2 208.9 212.3	=

^{1/} Total including farm production for red meats & lederally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass=to-retail conversion factor was 70.5). 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Medium # 1, Nebraska Direct 1,100–1,300 lb.; pork. barrows & glits, lows, Southern Minnesots; Veal: farm price of calves; lamb & mutton: Choice slaughter lambs, San Angelo; broilers wholesale 12-city average; turkeys; wholesale NY 8-16 lb. young hens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 veal trade no longer reported separately. F = forecast — = not available.

Information contacts: Polly Cochran, or Maxine Davis (202) 219-0767.

Table 11.—U.S. Egg Supply & Use

		2-4				Hatch-		Consur	nption	
	Beg. stocks	Pro- duc- tion	lm- ports	Total supply	Ex- ports	ing use	Ending stocks	Total	Per capita	Wholesale price*
			М	Illion dozen					No.	Cts./doz.
1967 1966 1989 1990 1991 1992 F	10.4 14.4 15.2 10.7 11.8 13.0	5.868.2 5,764.2 5,598.2 5,665.3 5,757.8 5,871.3	5.6 5.3 25.2 9.1 2.3 3.4	5,884.2 5,803.9 5,638.5 5,685.0 5,771.8 5,887.7	111 2 141.8 91.6 100.5 154 3 150.6	599.1 605.9 643.9 678.5 708.1 726.1	14.4 15.2 10.7 11.6 13.0 14.0	5,159.5 5,041.0 4,892.4 4,894.4 4,896.4 4,995.0	254.9 246.9 237.3 235.0 232.7 234.7	51.8 62.1 81.9 82.2 77.5 64-66

^{*} Cartoned grade A large eggs, New York | F = forecast.

Information contact: Maxine Davis (202) 219-0767.

Table 12.—U.S. Milk Supply & Use 1/_

			Coma	nercla!		Total		Commi	ercial	Alī	ccc	net removeis
	Produg- tion	Farm use	Farm market- inge	Beg. stock	lm- porta	commer- cial supply	CCC net re- movals	Ending stocks	Disap- pear- snce	milk price 1/	Skim solids basis	Total solids basis 2/
				1	Billion Pour	rds (milkfat bas	(8)			\$/cwt	Billion	pounde
1985 1986 1987 1988 1989 1990 1991	143.0 143.1 142.7 145.2 144.2 148.3 148.5 151.6	2.5 2.4 2.3 2.2 2.1 2.0 2.0	140 6 140.7 140.5 142.9 142.2 146.3 146.5	4.8 4.5 4.1 4.3 4.1 5.1	2.8 2.7 2.5 2.4 2.5 2.7 2.8	148.2 147.9 147.1 149.9 149.0 153.1 154.3 156.7	13.3 10.8 8.8 9.1 9.4 9.0 10.5	4.5 4.1 4.8 4.3 4.1 5.1 4.5	130.4 133.0 135.7 136.5 135.5 139.0 139.3	12.76 12.51 12.64 12.26 13.56 13.73 12.23	17.2 14.3 9.3 5.5 0.4 1.6 3.9 1.7	15.8 12.9 8.3 6.9 4.0 4.8 6.6

^{1/} Delivered to plants & dealers; does not reflect deductions. 2/ Arbitrarily weighted average of milkfat basis (40 percent) & skim solids basis (60 percent). F = forecast. Information contact: Jim Miller (202) 219-0770.

Table 13.—Poultry & Eggs_____

	Annual			1991				1992		
Broilers	1989	1990	1991	Sept	Apr	May	June	July	Aug	Sept
Federally inspected staughter, certified (mil. lb.) Wholesale price.	17,334.2	18,553.9	19,727.7	1.590.8	1,729 7	1,740.3	1,824.7	1,819.9	1,763.3	1,801.4
12-city (ctii./lb.) Price of grower feed (\$/ton) Broiler-feed price ratio 1/ Stocks beginning of period (mil. lb.)	59.0 237 3.0 35.9	54.8 218 3.0 38.3	52 0 207 3.0 26.1	53.65 201 3.2 41.5	49.5 210 2.8 31.8	55.1 211 3.0 35.4	52.4 211 3.0 31.8	56.0 211 3.2 33.7	56.1 210 3.3 35.1	51.3 212 3.0 36.0
Broiler-type chicks hatched (mil.) 2/	5,94 6.9	6.324.4	6,613.3	536.7	572.4	595.8	683.4	584.1	573.0	554.5
Turkeys Federally inspected slaughter, certified (mil. ib.) Wholesale price, Eastern U.S.,	4,174.8	4,560.9	4,651.9	404.8	385 2	374.2	434.7	452	411.9	431.3
8-16 lb. young hens (cts./lb.) Price of turkey grower feed (\$/ton) Turkey-feed price ratio 1/ Stocks beginning of period (mil. lb.) Poults placed in U.S. (mil.)	66 7 251.0 3.2 249.7 290.7	83.2 238 3.2 235.9 304.9	61.2 230 3.3 306.4 308.0	64.4 230 3.5 625.6 21.2	60.0 237 3.1 393.3 26.2	60.0 243 3.1 430.2 28.6	59.46 241 3.1 486.8 28.8	57.0 246 3.1 580.1 29.3	57.8 245 3.1 662.1 25.5	61.02 247 3.0 672.7 21.6
Engs Farm Production (mil.) Average number of layers (mil.) Potential layers and layers	67 ,178 269	67,983 270	69,094 274	5.651 274	5.819 277	5,907 276	5.685 275	5.899 275	5,909 274	5.74 7 277
Rate of lay (eggs per layer on farms)	249.5	251.7	252.4	20.7	21.0	21.4	20.7	21.5	21.6	20.8
Cartoned price. New York, grade A large (cts./doz.) 3/ Price of laying feed (\$/ton) Egg-feed price ratio 1/	81.9 209 6.7	82.2 200 7.0	77 5 192 9 .9	75.5 176 6.7	65.0 198 5.5	58.9 199 5.2	62.0 200 5.3	58.6 201 5.2	64.6 20 2 5.3	70.5 202 5.9
Stocks, first of month Shell (mil. doz.) Frozen (mil. doz.)	0.27 14.9	0.36 10.3	0.45 t1.2	0.3 12 4	0.84 15.0	0.81 14 3	1.02 14.4	0.0 16.1	0.9 14.8	0.7 16.3
Replacement chicks hatched (mit.)	383	398	417	33.9	35.B	38 3	34.3	32.0	28.2	27.9

^{1/} Pounds of leed equal in value to 1 dozen eggs or 1 lb. of broller or turkey liveweight. 2/ Placement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Maxine Davis (202) 219-0767.

Table 14.—Dairy

		Annual		1991				1992		
Land to the state of the state	1989	1990	1991	Sept	Apr	Мау	June	July	Aug	Sept
Milk prices, Minnesota-Wisconsin, 3,6% fat (\$/cwt) 1/	12.37	12.21	11.05	12.02	11.48	12.06	12.46	12 69	12.54	12.28
Wholesale prices Butter, grade A Chl. (cts./kb.)	127.9	102.1	99.3	100.7	86.2	83.8	76.6	76.6	76.8	81.7
Am. cheese, Wis assembly pt. (cts./ib.) Nonfat dry milk (cts./ib.) 2/	138.8 105.5	136.7 100.6	124.4 94.0	139.7 93.9	131.9 105.9	139.9 8/ 110.2	141.3 116.7	141, 8 115.0	142.0 111.6	136.9 105.1
USDA net removals 3/ Total milk equiv. (mit. ib.) 4/ Butter (mil. ib.) Am. cheese (mit. ib.) Nonfat dry milk (mil. ib.)	9.416.9 413.4 37.4 0	9.017.2 400.3 21.5 117.8	10,429.2 442.8 76.9 269.5	26.0 1.6 -7.0 3.5	1,061.3 46.7 2.2 7.9	1.235.9 55.0 0 24.5	648 2 27.7 0.2 4.8	620.5 22.5 0.3 6.5	393.5 17.4 0.3 0.9	241.5 8.3 0.3 14.0
Milk Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1,009) U.S. milk production (mil. lb.)	122,509 14,369 8,526 144,239	125,772 14,776 8.512 148.314	126.683 14, 977 8.392 148,525	9,927 1,169 8,350 7/11,705	10.866 1,316 8,254 7/ 12,867	11.258 1.363 8.262 7/ 13,331	10,868 1,31 6 8.260 7/ 12,869	10,939 1,324 8,259 7/12.867	10,756 1,301 8,265 7/ 12,671	10,310 1,248 8,258 7/ 12,146
Stock, beginning Total (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports, total (mil. lb.) Commercial disappearance (mil. lb.)	8,379 4,256 4,122 2,499	9,036 4,120 4,918 2,690	13,359 5,146 8,213 2,624 139,380	18,483 5,470 13,014 224 11,963	19,069 4,926 14,143 211	20,050 4,955 15.095 216	20,703 5,075 15,628 215	21,489 5,104 16,384 220	22,028 5,675 16,350 170	21,151 6,676 15,475
Butter	135,370	130,422	138,360	11,803	11.521	12,018	12,240	11.843	12.275	
Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	1.295.4 214.7 876.0	1,302.2 256.2 915.2	1,338.3 416.1 903.0	81,9 629,4 82,9	119.7 655.7 72.8	118.2 701.7 65.0	103.2 734.1 77.3	96.8 766.2 62.6	84.8 780.6 63.6	90.0 732.3
American cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2,674 1 293.0 2,693.1	2.894.2 236.2 2,784.4	2,804.9 347.4 2,792.7	211.0 393.3 230.2	244.9 338 5 244.3	261.8 338.4 262.7	259.7 349.0 263.7	259.3 345.1 232.0	242.4 370.1 -246.2	222.9 364.8
Other cheese Production (mll. lb.) Stocks, beginning (mll. lb.) Commercial disappearance (mil. lb.)	2.941.3 104.7 3,208.9	3,167.0 93.2 3,426.4	3.285.9 110.6 3.676 2	274.0 102.0 296.0	289,8 113,5 309,4	289.1 115.0 310.5	288.3 115.6 305.9	288.7 121.8 304.7	293.5 127.1 316.3	297.1 123.9
Nonfat dry milk Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	874.7 53.1 873.0	879.2 49.5 697.6	877.5 161.9 862.7	43.3 337.6 59.9	82.2 127 5 70.7	89.2 138.7 64.7	81,3 137,5 54,5	76.0 149.5 56.5	59.2 148.7 48.3	52.8 138.1
Production (mil. gal.) 5/	1,214.0	1,174.6	1,196.1	99.4	111.7	118 6	127.9	125.4	117.7	105.2
		Annual				1991			1992	
	1989	1990	1991	T	II	111	IV		II P	III P
Milk production (mil. lb.) Milk per cow (lb.) No. of milk cows (1,000) Milk-lead price ratio 6/ Returns over concentrate costs (\$/cwt milk) &/	144,239 14,244 10,126 1.65 10,18	148.314 14.846 10,127 1.71 10 39	148,525 14,867 9,990 1.58 9,00	37,425 3,705 10,101 1,48 8,25	38.633 3,864 9,999 1,48 8.05	36.255 3.647 9,940 1.59 9.25	36.212 3,851 9,918 1,77 10.45	37,958 3,850 9,858 1,68 9,60	39,067 3,966 9,851 1.85 9.60	37,704 3,829 9,846 1.75 10.20

^{1/} Manufacturing grade milk. 2/ Prices paid f.o.b. Central States production area. 3/ Includes products exported through the Dairy Export Incentive Program (DEIP). 4/ Milk equivalent, fat basis. 5/ Hard Ice cream, Ice milk, & hard sherbet. 6/ Based on average milk price after adjustment for price support deductions. 7/ Estimated. 8/ Entire period not available. Average of weeks reported. P = preliminary. — = not available.

Information contact: LaVerne T. Williams (202) 219-0770.

Table 15.-Wool

		Annual			1991			1992	
	1989	1990	1991	II	M	iV	I	IIP	III P
U.S. wool price, (cts./lb.) 1/	370	256	199	200	217	182	209	222	210
Imported wool price, (cts./lb.) 2/ U.S. mill consumption, scoured	354	287	187	199	194	222	250	233	203
Apparel wool (1,000 lb.)	120,534	120.622	143,519	37,111	34,578	33,916	36,929	38,045	34,462
Carpet wool (1,000 lb.)	14,122	12,124	14,363	3,118	4,561	3,588	4,580	3,623	3.145

^{1/} Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. P = preliminary. — = not available.

Information contact: John Lawler (202) 219-0640.

Table 16.—Meat Animals.

		Annual		1991			ti	992		
	1989	1990	1991	Sept	Apr	May	June	July	Aug	.Sept
and the state of the state of										
Cattle on feed (7 States) Number on feed (1,000 head) 1/	8,045	8,378	8,992	7.084	8,008	7.818	7,826 1,339	7.337 1,432	7,000 1,641	5.968 2,179
Placed on feed (1,000 head)	20,819	21,030	19,704 19,068	1.82 6 1.598	1,425 1,490	1,724 1,594	1,712	1,684	1,592	1.586
Marketings (1,000 head) Other disappearance (1,000 head)	19,407 1,079	19,198 1,218	1.233	76	125	122	116	86	81	86
est steer-com price ratio.							00.4	32.2	34.7	35.1
Omaha 2/	30.3 18.4	32.8 23.1	31.6 21.1	28.8 19.9	31.6 17.2	30.6 18.7	29.4 18.7	20.0	21.3	20.3
og-corn price ratio, Omaha 2/	15,4	63.1	21.1	18.0	17.00					
larket prices (\$/cwt) Slaughter cattle							74.45	73.05	73.08	73.68
Choice steers, Omeha 1,000-1,100 lb.	72.52	77.40	73.83	67.20	76.93	76.31	74.15	73.05		
Choice steers, Neb. Direct, 1,100-1,300 lb.	73.86	78 56	74.28	68.07	77.61	76.18	74.02	73.23	73.96	74.44 48.43
Boning utility cows, Sloux Falls	48.98	53.60	50.31	49.77	44.92	45.63	43.47	44.28	48.13	46.43
Feeder cattle Medium no. 1. Oklahoma City								p7 40	88.18	87.48
600-700 Pb.	86.66	92.15	92.74	89.74	84.57	84.99	85,19	B7.46	50.10	97.40
Slaughter hoge	44.74	55.32	49.69	46.90	42.31	48.41	48.64	45.22.	45.27	42.68
Barrows & gilts, Iowa, S. Minn. Feeder pigs				38.22	37.87	32.10	27.50	26 20	31.28	31.18
S. Mo. 40-50 lb. (per head)	33.63	51.46	39.84	36.22	37.87	32.10	27.00			
Slaughter sheep & lambs	67.32	55 54	52.73	53.25	74.63	68.88	64.50	58.17	53.50	52.50
Lambs, Choice, San Angelo Ewes, Good, San Angelo	38.58	35.21	31.98	29.63	35.00	31.63	29.44	33.57	35 38	32.39
Feeder lambs		62.95	53 27	52.63	70.56	64.69	61.22	58.43	63.69	55.43
Choice, San Angelo	79.85	02.95	00 21	52.00	10.50	04.00				
Wholesale meat prices. M dwest	114.78	123.21	118.31	110.61	118.66	119.18	117.53	112.79	114.36	114.40
Boxed beef cut-out value Canner & cutter cow beef	94.43	99.96	99.44	99.69	94.16	95.31	93.14	94.29	96.74 111.18	93.23
Pork loins, 14-18 lb. 3/	101.09	117.52	108.39	115.85	98.65	108.94 34.09	113.94 32.78	108.22 32.77	35.13	29.09
Pork bellies, 12-14 lb. Hams, skinned, 14-17 lb.	34.14 69,39	53 80 87,70	47.79 81.80	38.97 85.0	28.93	34.08	32.76		-	
Ali fresh beef retail price 4/	238.97	254,99	262.12	258.23	260.32	259,28	257.47	257.09	258.21	258.72
•	200.01	404.00								
Commercial slaughter (1,000 head) 5/ Cattle	33,918	33,241	32,690	2,703	2,587	2,745	2.923	2,860	2,782	2.809
Steers	16,539	16.587	16,732	1,386	1,365	1.473	1.614	1,571 796	1.494	1,458 808
Helfers	10,406	10,090	9,719	852 414	713 458	772 445	800 451	435	427	482
Cows	6,316 657	5.920 644	5,523 614	51	51	55	58	58	59	61
Bulls & stags Calves	2,172	1,789	1,436	119	111	106	108	109	110	110 489
Sheep & lambe	5.466	5,654	5,722	A77	526	388 7.061	436 7,345	444 7,839	418 7,682	8.414
Hogs	88,691	85,136	88.169	7,361	7,792	7,001	11940	1,036	,,002	4,
Commercial production (mll. lb.)	22,974	22,634	22,800	1.940	1.786	1.899	2,038	2,015	1,980	1.995
Beef Veal	344	316	296	24	25	25	25	24	24	23
Lamb & mutton	341	358	358	28	33	25 1.287	27 1.332	27 1.374	25 1.378	30 1,510
Pork	15.759	15.300	15,948	1,316	1,414	1,287	1.002	1,074	11010	11010
					4004				992	
		Anriual			1991				III	IV
	1989	1990	1991	[1	111	NA	1	II	III	1.4
Cattle on feed (13 States)	9.688	0,943	10,827	10,739	9,461	8,620	10,135	9,693	B.847	8.920
Number on feed (1.000 head) 1/ Placed on feed (1.000 head)	24,469	24.803	23.208	5,008	5,414	7,086	5,403	5,273	6,107	
Marketings (1,000 head)	22,940	22,528	22,383	5,820	5,973	5.262	5,441	5.675	5,766 2 68	*5,225
Other disappearance (1,000 head)	1,274	1,393	1.517	464	282	309	404	444	200	
logs & pigs (10 States) 6/	40.040	40 000	42 000	41,990	44,520	46,900	45,735	44,770	47.225	49.145
Inventory (1,000 head) 1/	43,210 5,335	42,200 5,275	42,900 5.257	5.450	5,720	5,675	5.810	5,550	5,840	5,835
Breeding (1,000 head) 1/ Market (1,000 head) 1/	37,875	36,925	37,643	36,540	3B.600	41,225	40.125	39.220	41,385	43.310 2 445
Farrowings (1,000 head) Pig crop (1,000 head)	9,203 71,807	8,960 70,589	9,479 75,035	2.586 20,832	2,441 19,278	2,348 18,551	2,289 18.476	2, 6 55 21,504	2,513 20,493	2 445

^{1/} Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Prior to 1984, 8–14 lb.: 1984 & 1985, 14–17 lb; beginning 1988, 14–18 lb. 4/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8, 5/ Classes estimated 6/ Quarters are Dec. of preceding year–Feb. (i), Mar.–May (II), June–Aug. (II), & Sept–Nov. (iV). May not add to NASS totals due to rounding — = not available. *Intentions.

Information contact: Polly Cochran (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization 1,2

		Area					Feed	Other				
	Set aside 3/	Planted	Harves- led	Yield	Produc- tion	Total supply 4/	end resid- ual	domes- tic use	Ex→ ports	Total use	Ending stocks	Farm price 5/
		Mil acres		Bul/acre				Mil. bu.				\$/bu.
Wheat 1987/88 1988/89 1989/90 1990/91 1991/92* 1992/93*	23.9 22.5 9.6 7.5 15.9 7.0	65.8 65.5 76.6 77.2 69.9 72.3	55.9 53.2 62.2 69.3 57.7 62.4	37.7 34.1 32.7 38.5 34.3 39.4	2,108 1,812 2,037 2,736 1,981 2,459	3,945 3,096 2,762 3,309 2,888 2,981	290 150 144 499 257 250	806 829 849 875 879 933	1,588 1,415 1,232 1,088 1,281 1,275	2,884 2,394 2,225 2,443 2,416 2,458	1,261 702 636 866 472 523	2.57 3.72 3.72 2.61 3.00 3.10—3.30
		Mil. acree		Lb./acre			N.	dil, cwt (rough e	quiv.)			\$/owt
Rice 1987/88 1988/89 1989/90 1890/91* 1991/92* 1992/93*	1.57 1.09 1.18 1.02 0.9 0.4	2.36 2.93 2.73 2.90 2.86 3.03	2.33 2.90 2.69 2.82 2.75 2.97	5,555 6,5 14 5,749 5,529 6,617 6,666	129.6 159.9 154.5 156.1 154.5 168.2	184.0 195.1 185.6 187.2 184.3 201.1		6/ 80.4 6/ 82.5 6/ 82.1 6/ 91.7 6/ 90.7 6/ 94.0	72.2 85.9 77.2 70.9 66.4 74.0	152.6 168.4 159.3 182.7 157.1 168.0	31.4 26.7 26.3 24.6 27.3 33.1	7.27 6.83 7.35 6.70 7.53 6.10-6.60
C		Mil. acres		Bu Jacr●				Mil. bu.				\$/bu.
Corn 1987/88 1988/89 1989/90 1990/91" 1991/92" 1992/93"	23.1 20.5 10.8 10.7 7.4 5.3	66.2 67.7 72.2 74.2 76.0 79.3	59.5 58.3 64.7 67.0 68.8 72.1	119.8 84.6 116.3 118.5 108.6 129.3	7,131 4,029 7,525 7,934 7,474 9,329	12.018 9,191 9,458 9,282 9,015 10,439	4,798 3,941 4,389 4,669 4,897 5,200	1,243 1,293 1,356 1,367 1,434 1,485	1,716 2,026 2,368 1,725 1,584 1,600	7,757 7,260 8,113 7,761 7,915 8,285	4.259 1.930 1.344 1.521 1.100 2.154	1.94 2.54 2.36 2.28 2.37 1.85-2.15
Sauton		Mil. acres		Bul/acre				Mil. bu.				\$/bu.
Sorghum 1987/88 1988/89 1989/90 1990/91* 1991/92* 1992/93*	4.1 3.9 3.3 3.3 2.5 1.9	11.8 10.3 12.6 10.5 11.0 13.5	10.5 9.0 11.1 9.1 9.8 12.3	69.4 63.8 56.4 63.1 59.0 71.2	731 577 616 573 579 878	1,474 1,239 1,055 783 722 931	555 466 517 410 368 500	25 22 15 9	232 312 303 232 291 300	812 800 835 651 669 810	663 440 220 143 53 121	1.70 2.27 2.10 2.12 2.25 1.75–2.05
		Mil. acres		Bu./acre				Mil. bu.				\$/bu.
Barley 1987/68 1988/89 1989/90 1990/91" 1991/92" 1992/93"	2.9 2.8 2.3 2.9 2.2 2.1	10.9 9.8 9.1 8.2 8.9 7.6	10.0 7.8 8.3 7.5 8.4 7.3	52.4 38.0 48.0 56.1 55.2 62.4	521 290 404 422 464 456	869 622 614 596 624 605	253 171 193 205 230 195	174 175 175 176 171 170	121 79 84 81 95	548 425 453 461 496 475	321 196 161 135 129 130	1.81 2.79 2.42 2.14 2.10 2.00-2.20
0-1-		Mil. acres		Bu./ac≀●				Mil. bu				\$/bu.
Oate 1987/88 1988/89 1988/90 1990/91* 1991/92* 1992/93*	0.8 0.3 0.4 0.2 0.6 0.5	17.9 13.9 12.1 10.4 8.7 8.0	6.9 5.5 6.9 6.9 4.8 4.5	54,3 39,3 54,3 60,1 50,7 65,8	374 218 374 358 243 295	552 392 538 578 489 462	358 194 266 286 235 230	81 100 115 120 125 130	1 1 1 1 2 2	440 294 381 407 362 362	98 157 171 128 100	1 56 2.61 1.49 1.14 1.20 1.25–1.35
Soybeans		Mil. acres		Bu./acre				Mil. bu.				\$/bu.
1987/88 1988/89 1989/90 1990/91* 1991/92* 1992/93*	0000	58.2 58 8 60 8 67.8 59.2 59.1	57.2 57.4 59.5 56 5 68.0 58.1	33.9 27.0 32.3 34.1 34.2 37.3	1,938 -1,549 1,924 1,926 1,987 2,187	2.375 1.855 2.108 2.168 2.319 2.447	7/ 97 7/ 88 7/ 100 7/ 95 7/ 102 7/ 102	1,174 1,058 1,146 1,187 1,254 1,255	802 527 623 557 685 730	2,073 1,873 1,869 1,839 2,041 2,097	302 182 239 329 278 350	5.88 7.42 5.69 5.74 5.60 5.00–5.4
and a set								Mil. Ibs.				B/ Cts./lb.
Soybean oli 1987/88 1988/89 1989/90 1990/91* 1991/92* 1892/93*		-	=======================================		12.974 11,737 13,004 13.408 14,345 14,293	14.895 13.967 14.741 14,730 16,131 16,525	=======================================	10.930 10.591 12,083 12,164 12,251 12,800	1,873 1,681 1,353 760 1,650 1,775	12,803 12,252 13,436 12,944 13,901 14,375	2,092 1,715 1,305 1,788 2,230 2,150	22 67 21.10 22.30 21.00 19.00 18.0-21.0
Soybean meal								1,000 гопв				9/ \$/ton
1987/88 1988/89 1989/90 1990/91" 1991/92" 1992/93"				=	28,080 24,943 27,719 28,325 29,831 30,050	28,300 25,100 27,900 28,666 30,180 30,330	= = =	21,293 19.657 22,263 22,912 23,300 24,030	6,854 5,270 5,319 5,459 6,650 6,000	28,147 24,927 27,582 26,381 29,950 30,030	153 173 318 285 230 300	239 252 186 181 189 165-190

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

	Set	Area	Harves-		Produc-	Total	Feed and regid-	Other domes- tic	Ex-	Total	Ending	Farm price
	Aside 3/	Planted	bet	Yield	tion	supply 4/	ual 	Ü\$9	Ports	U\$0	Stocks	5/
	- h	(il. acros		Lb /acre				Mil. bales				
Cotton 10/ 1987/88 1988/89 1989/90 1990/91* 1991/92* 1992/93*	4.0 2.2 3.5 2.0 1.2 1.8	10.4 12.5 10.8 12.3 14.1 13.4	10.0 11.9 9.5 11.7 13.0 11.2	708 819 614 634 652 694	14.8 15.4 12.2 15.5 17.6 18.2	19.8 21.2 19.3 18.5 20.0 19.9	gray	7.6 7.8. 8.8 8.7 9.6 9.7	6.6 8.1 7.7 7.8 6.7 8.0	14 2 13.9 16.5 16.5 16.3 15.7	5 8 7,1 3.0 2.3 3.7 4.3	64,30 58,60 66,20 68,20 11/ 58,30

^{*}November 10, 1992 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley, & cats. August 1 for cotton & rice. September 1 for soybeans, corn. & sorghum, October 1 for soymeal & soyoll. 2/ Conversion factors: Hectere (ha.) = 2.471 acres. 1 metric ton = 2204,622 pounds, 36,7437 bushels of wheat or soybeans, 38,3679 bushels of corn or sorghum, 45,9296 bushels of barley, 68,8944 bushels of cats. 22,046 avt of rice, & 4,59,480—pound bales of cotton. 3/ Includes diversion, acreage reduction, 50-92, & p-92 programs. 0/92 & 50/92 set-aside includes titled acreage & acreage planted to minor obleseds. Data for 1992/93 are preliminary. 4/ Includes imports. 5/ Marketing-year weighted average price received by farmers. Does not include an allowance for loans outstanding & Government purchases. 6/ Residual included in domestic use. 7/ Includes geed. M Simple average of crude soybean oil, Decatur. 9/ Simple average of 48 percent. Decatur. 10/ Upland & extra long staple. Stocks estimates based on Census Bursau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. 11/ Weighted average for August-March; not a projection for the marketing year. — = not available or not applicable.

Information contact: Commodity Economics Division, Crops Branch (202) 219-0849.

Table 18.—Cash Prices, Selected U.S. Commodities

		Marketin	ig year 1/		1991		9	1992		
	1988/89	1989/90	1990/91	1991/92	Sept	May	June	July	Aug	Sept
Wheat, No. 1 HRW. Kansall City (\$/bu.) 2/	4.17	4.22	2.94	3.77	3.31	3.90	3.91	3.52	3.27	3.56
Wheat, DNS, Minneapolia (\$/bu.) 3/ Ride, S.W. La. (\$/cwt) 4/	4.36 14.85	4. 16 15.55	3.06 15.25	3.82 16.50	3.21 16.65	4.44 15.70	4.42 15.10	4.04 15,20	3.65 15.00	3.79 14.75
Corn. no. 2 yellow, 30 day, Chicago (\$'ou.)	2 68	2.54	2.41	2.62	2.48	2.60	2.59	2.37	2.23	2.17
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	4.17	4.21	4.08	4.38	4.24	4.54	4.51	4.05	3.77	3.76
Barrey, feed, Duluth (\$/bu.) 5/	2.32	2.20	2.13	2.17	2.08	2.38	2.30	2,15	2.03	2,12
Barley, malting, Minneapolle (\$/bu.)	4.11	3.28	2.42	2.38	2.21	NQ	3.95	2.59	2.19	2.30
U.S. Price, SLM, 1-1/16 in. (cts./lb.) 6/	57.7	69.8	74.8	56.7	62.4	55 5	58 8	60.9	57.6	53.5
Northern Europe prices index (cts./lb.) 7/ U.S. M 1-3/32 in. (cts./lb.) 8/	68.4 69.2	82.3 83.6	82.9 88.2	62.9 66.3	69.9 73.1	61.0 63.6	64.4 67.7	65.2 71,3	59.2 62.9	56.3 80.3
Soybeans, no. 1 yellow, 30 day, Chicago (\$/bu.)	7.41	6.88	5. 78	5.75	5.90	5.99	6.08	5.85	5.40	5.42
Soybean oil, crude, Decatur (cts./lb.)	21.10	22 30	21.00	19.13	20.46	20.23	20.71	18.82	17.87	18 28
Soybean meel, 48% protein, Decetur (\$/ton) 9/	252.40	188,50	181.40	181.38	204.25	195.25	203.90	186.25	186.00	187.00

^{1/} Beginning June 1 for wheat & barley: Aug. 1 for rice & cotton: Sept. 1 for corn, sorghum & soybeans; Oct. 1 for soymeal & oli. 2/ Ordinary protein. 3/ 14% protein, 4/ Long grain, milled basis. 5/ Beginning Mar. 1987 reporting point changed from Minneapolis to Duluth. 6/ Average spot market: 7/ Liverpool Cotlook "A" Index, average of five lowest prices of 13 selected growths. 8/ Memphis territory growths. 9/ Note change to 48% protein. NO = no quotation.

Information contacts: Wheat, rice, & feed grains, Joy Harwood (202) 219-0840; Cotton, Les Meyer (202) 219-0840, Soybeans, Brenda Toland, (202) 219-0840.

Table 19.—Farm Programs, Price Supports, Participation & Payment Rates_

					Payment rales				
	Target price	Basic Ioan rate	Findley or announced loan rate 1/	Total deliciency	Paid land Mandatory	diversion Optional	Effective base acres 2/	Program 3/	Partici- pation rate 4/
	,,,,,,	7		\$/bu.			Mil.	Percent of	Percent of base
Wheat 1987/88 1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1893/94	4.38 4.23 4.10 4.00 4.00 4.00	2.85 2.76 2.58 2.44 2.52 2.58 2.86	2 28 2 21 2 08 1 95 2 04 2 21 2 .45	1.81 0.69 0.32 1.28 1.35	Abademic should should should server server server		87.6 84.8 82.3 80.5 79.2 79.0	27 5/0/0 27.5/0/0 10/0/0 6/ 5/0/0 15/0/0 5/0/0 0/0/6	88 86 78 83 85 82
Rice				\$/cwt					
1987/88 1988/89 1989/90 1990/91 5/ 1991/92 1992/93	11.66 11.15 10.80 10.71 10.71	6.84 6.63 6.50 6.50 6.50 6.50	7/ 5.79 7/ 8.21 7/ 5.74 7/ 5.81 7/ 5.85	4.82 4.31 3.56 4.18 3.07		=	4.2 4.2 4.2 4.2 4.1	35/0/0 25/0/0 25/0/0 20/0/0 5/0/0 0/0/0	96 94 94 94 95 93
Corn				\$/bu.					
1987/88 1988/89 1989/90 1980/91 5/ 1891/92 1992/93 1993/94	3.03 2.93 2.84 2.75 2.75 2.75 2.75	2.28 2.21 2.06 1.96 1.89 2.01 1.99	1.82 1.77 1.85 1.57 1.62 1.72 1.72	1.09 0.36 0.58 0.51 0.41		2.00	81.5 82.9 82.7 82.7 82.7 82.2	20/0/16 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 10/0/0	90 87 79 77 77 75
Sorobum				\$/bu,					
Sorghum 1987/88 1988/89 1989/90 1990/91 1991/82 1992/93 1993/94	2.88 2.78 2.70 2.61 2.61 2.61 2.61	2 17 2.10 1 96 1 86 1 80 1.91 1.89	1.74 1.68 1.57 1.49 1.54 1.63	1.14 0.48 0.65 0.58 0.37		1.90	17.4 16.8 16.2 15.4 13.5	8/ 20/0/15 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 5/0/0	84 82 71 70 77
Barlev				\$/bu.					
Barley 1987/88 1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94	2.60 2.51 2.43 2.36 2.36 2.36 2.36	1.86 1.80 1.68 1.80 1.54 1.64	1.49 1.44 1.34 1.28 1.32 1.40	0.79 0.00 0.00 0.20 0.62		1.60	12.5 12.5 12.3 11.0 11.5	8/ 20/0/16 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 0/0/0	85 79 67 68 76 74
Oats				\$/bu.					
1987/88 1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94	1 60 1.55 1.50 1.45 1.45 1.45	1.17 1.14 1.06 1.01 0.97 1.03 1.02	0.94 0.80 0.85 0.81 0.83 0.88 0.88	0.20 0.00 0.00 0.32 0.35		0.80	8 4 7.9 7.6 7.5 7.3	8/ 20/0/15 5/0/0 5/0/0 5/0/0 0/0/0 0/0/0 0/0/0	45 30 18 09 38 40
Soybeans 9/				\$/by .					
1987/88 1988/89 1989/90 1990/91 5/ 1991/92 1992/93			4.77 4.77 4.53 4.50 5.02 5.02		=	N	GLANGER	10/ 10/25 10/ 0/25 10/ 0/25 10/ 0/25 10/ 0/25	
Upland cotton				Cte./tb.					
1987/88 1988/89 1988/89 1990/91 5/ 1991/92 12/ 1992/93 1993/94	79.4 75.9 73.4 72.9 72.9 72.9 72.9		11/ 80.00 11/ 51.89 11/ 65.05 11/ 67.00 11/ 47.23 11/ ———————————————————————————————————	17 3 18.4 13.1 7.3 10.1			14.5 14.6 14.6 14.4 14.8	25/0/0 12.5/0/0 25/0/0 12 5/0/0 5/0/0 10/0/0 7.5/0/0	93 89 86 84 67

1/ There are no Findley loan rates for rice or cotton. See footnotes 8/, 12/, & 13/. 2/ National effective crop acreage base as determined by ASCS. Not of CRP.

3/ Program requirements for participating producers (mandatory soreage reduction program/mandatory paid land diversion/optional paid land diversion). Acres idled must be devoted to a conserving use to receive program benefits. 4/ Percentage of effective base acres enrolled in acreage reduction programs. 5/ Payments & ioans were reduced by 1.4 percent in 1990/91 due to Gramm-Rudman-Hollings. Budget Reconstiliation Act reductions to deficiency payments rates were also in effect in that year. Data do not include these reductions. 5/ Under 1990 modified contracts, Participating producers plant up to 105 percent of their wheat base acres. For serv acre planted above 95 percent of base, the acresge used to compute deficiency payments was out by 1 acre. 7/ A marketing loan has been in effect for rice eince 1985/85. Loans may be repaid at the lower of: a) the loan rate or b) the adjusted world market price (announced weekly). However, loans cannot be repaid at less than a specified fraction of the loan rate. Oata refer to annual average loan repayment rates. 8/ The sorghum, oats. & barley programs are the same as for corn except as indicated. 9/ There are no target prices, base acres, acreage reduction programs, or deficiency payment rates for soybeans. 10/ Nominal percentage of program crop base acres permitted to shift into soybeans without loss of base. 11/ A marketing loan has been in effect for cotton since 1988/85. In 1987/85 & affect, loans may be repaid at the lower of: a) the loan rate or b) the adjusted world market price (announced weekly; Plan B). Starting in 1991/92, loans cannot be repaid at less than 70 percent of the loan rate fet to annual average loan repayment rates. 12/ A marketing certificate program was implemented on Aug. 1, 1991. — = not available.

information contact: Joy Harwood (202) 219-0840.

^{*} For wheat, the 1991/92 rate is the total deficiency payment rate for the *regular* program. For the winter wheat option, the rate is \$1.25.
**Estimated total deficiency payment rate. Minimum guaranteed payment rate for 0/92 (wheat & feed grains) & 50/92 (rice and upland cotton) programs.

Table 20.—Fruit									
	1983	1984	1985	1986	1987	1988	1989	1990	1991 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (ibs.) 2/	13.682	10.832 22.6	10.525 21.8	11,058 24.3	11,993 24.0	12,761 25,4	13,186 25,1	10,860 22.1	11,285 19.9
Noncitrus 3/ Production (1,000 tons) Per capita consumpt, (lbs.) 2/	14,168 62. 6	14,301 66.3	14,191 65.3	13,874 68.8	18.011 73.5	15.893 72.0	16,365 73.6	15.656 70 .5	15,821 70.7
					1992				
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/	13.73 12.50	21.13 21.25	15.00 13.50	15.00 13.68	15.13 18.13	15.50 15.10	16. 56 14.30	25 70	16.73
Grower prices Oranges (\$/box) 6/ Grapefruit (\$/box) 6/	6.19 6.02	6.30 6.35	7.39 7. 15	6.44 6.68	6.50 4.23	4.75 4.45	2.06 4.00	1.65 3.32	1.37 3.73
Stocks, ending Fresh apples (mil. lbs.) Fresh pears (mil. lbs.) Frozen fruits (mil. lbs.)	2,952.9 181.5 803.8	2.315.4 152.7 741.8	1.623.1 93.6 634.1	1,073,3 57,0 582,0	672 9 18.7 613.7	327.1 4.7 668.1	106.5 49.4 803.1	33.5 139.1 881.0	3,479,4 523,1 937.0
Frozen orange juice (mlf. lbs.)	1,130.7	1,149.7	1,102.9	1,269.3	1,308.2	1,133.4	978.0	874.9	740.7

^{1/ 1991} Indicated 1990/91 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious. Washington, extra fancy, carton tray pack, 125's. 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on-tree returns. P = preliminary. — = not available.

Information contact: Wynnice Napper (202) 219-0884

Table 21.—Vegetables

					Cale	ndar year				
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Production Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/ 3/ Processed (1000 cwt) 2/ 3/ Mushrooms (1,000 ibs.) 4/ Potatoes (1,000 cwt) Dry edible beens (1,000 cwt)	430,785 193,451 11.867,170 490,826 355,131 14,833 25,563	403.509 185.782 10.886.350 561,531 333,726 12.083 16,520	456.334 201,817 12,725,880 595,681 362,039 12,902 21,070	453,030 203,549 12,474,040 587,958 406,609 14,573 22,298	448,629 203,165 12,273,200 614,393 361,743 12,368 22,960	478,381 220,539 12,892,100 631,819 389,320 11,611 26,031	488,779 228,397 12,019,110 667,759 356,438 10,945 19,263	542,437 239,281 15,157,790 714,992 370,444 11,358 23,729	581.704 239.104 18.130.020 749.151 402.110 12.594 32.379	564,300 229,007 16,764,670 738,632 418,220 11,203 32,963
	1991					1992				
	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
Shipments Fresh (1,000 cwt) 5/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt)	16,583 11,388 433	22,759 14,747 301	17.429 12.213 295	17,527 14.325 247	26.955 22,793 387	28,050 14,643 176	29,058 11,768 184	25,358 10,946 2 46	15.813 9.418 130	18,112 13,306 346

^{1/} includes fresh production of asparagus, broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions, & tomatoes, 2/ includes processing production of snap beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), asparagus, broccoli, carrots, & cauliflower, 3/ Apparagus & cucumber estimates were not available for 1982 & 1983, 4/ Fresh & processing agaricus mushrooms only. Excludes specietly varieties. Crop year July 1 ~ June 30, 5/ Includes snap beans, broccoli, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onlons, bell peppers, squash, tomatoes, cantaloupes, honeydews, & watermelons.

Information contacts: Gary Lucier or Cathy Greene (202) 219-0884.

Table 22.—Other Commodities

		Annual					1991			1992
	1987	1988	1989	1990	1991	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/ Coffse	7,309 8,167 3,195	7,087 8,188 3,132	6,841 8,340 2,947	8,335 8,661 2,729	7,145 8,698 3,039	625 2,103 2,487	647 2,340 1,513	3.661 2,236 2,923	3,667 2,236 3,039	2,1 38 2,01 6 3,625
Composite green price N.Y. (cts./lb.)	109.14	119.59	95,17	76.93	70.09	72.13	68.16	64.84	64.84	59.19
Imports, green bean equiv. (mil. lbs.) 2/	2,638	2,072	2,830	2.714	2,572	6631	562	699	699	8,40
, ,		Annual		1991				1992		
	1989	1990	1991	July	Feb	Mar	Apr	May	June	July
Tobacco Prices at auctions 3/ Flue-cured (\$/lb.) Buriey (\$/lb.)	167.4 167.2	167.3 175.3	172.3 178.8	=	162.5	_	=		=	=
Domestic consumption 4/ Cigarettes (bil.) Large cigars (mil.)	540.0 2,467. 6	523,1 2,343,5	516.3 2,231.9	42.3 170.2	38 6 155 7	48.5 181.1	43.6 161.7	39.0 165.1	51.7 217.2	38.3 166.2

^{1/1,000} short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net Imports of green & processed coffee. 3/ Crop year July-June for flue-cured, Oct.—Sept. for burley. 4/ Taxable removals. — = not available.

Information contacts: sugar, Peter Buzzanell (202) 219-0886, coffee, Fred Gray (202) 219-0888, tobacco, Verner Grise (202) 219-0890.

World Agriculture

Table 23.—World Supply & Utilization of Major Crops, Livestock & Products_

	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92 P	1 992 /93 F
				Million units			
Wheat Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	228 1	219.7	217.4	225.8	231.4	221.1	221.0
	524.1	495.7	495.0	532.9	588.1	542.3	553.1
	90.7	107.1	97.9	97.0	94.5	108.2	101.2
	515.9	524.9	525.4	529.9	565.2	554.6	549.3
	177.6	148.4	118.0	120.9	143.9	131.5	135.3
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	335.3	323.1	323.3	320.8	313.8	319.2	320.0
	822.2	783.9	721.1	792.5	819.9	800.8	836.8
	83.5	84.0	96.1	102.1	87.9	94.3	88.7
	796.0	805.0	785.5	817.4	807.5	808.2	818.7
	235.8	214.4	150.0	125.0	137.6	132.2	150.3
Rice, milled Area (hectares) Production (metric tons) Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	145.1	141.7	145.4	146.7	147.1	145.3	148.5
	318.7	314.5	330.0	342.8	351.2	347.3	349.5
	12.9	11.9	15.1	12.1	12.7	14.3	13.9
	320.7	320.0	327.8	336.8	348.1	351.4	353.4
	51:4	45.9	48.3	55.1	80.4	58.5	52.0
Total grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	708.5	684 5	686.1	693.3	592.3	885.6	687.5
	1.663.0	1,594.1	1.546.1	1,668.0	1,759.2	1.690.4	1,739.4
	187.1	203.0	209.1	211.2	195.1	216.8	203.8
	1.632.6	1,649.9	1.638.5	1,683.1	1,718.8	1,712.2	1,721.4
	484.8	408.7	316.3	301.0	341.9	320.2	338.5
Oilseeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	161.8	168.4	164.5	172.0	177.4	184.7	184.8
	194.9	210.5	201.7	212.5	215.9	223.0	224.2
	37.7	39.5	31.5	35.5	33.0	36.7	36.7
	23.3	24.0	22.1	23.3	22.8	21.2	22.4
Meals Production (metric tons) Exports (metric tons)	110.7	115.4	111.3	117.1	119.8	125.0	125.3
	36.7	35.8	37.4	38 5	39.5	41,3	39.8
Oils Production (metric tons) Exports (metric tons)	50 .4 ² 16.9,	53.3 17.5	53.3 18.1	57.2 19.8	58 2 20.2	60.2 20.0	608.0 20.1
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	29.2	30 8	33 7	31.5	33.0	34.8	33.4
	70.5	61.1	84.4	79.8	86.9	95.9	87.3
	25.0	23.1	25.8	23.9	22.9	22.5	22.7
	62.8	64.1	85 3	66.7	85.4	85.0	88.7
	35.9	33.0	32.1	26.5	28.8	40.0	44.9
	1986	1987	1988	1989	1990	1991 P	1992 F
B. 1				Million			
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	109.8	112.8	116.5	117.9	120.0	119.1	118.8
	108.6	110.8	114.5	116.5	117.8	117.1	117.3
	8.8	6.7	7.1	7.2	7.3	7.7	7.7
Poultry 5! Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	30.1	31.3	32.7	34.0	35.8	• 37.8	39.4
	29.7	30.8	31.9	33.1	34.8	37.0	38.7
	1.3	1.5	1.8	1.8	2.0	2.1	2.3
Dairy Mllk production (metric tons)	425.9	425.7	429.0	434.9	442.0	429.2	425.3

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1987 data correspond with 1986/87, etc. 5/ Poultry excludes the Peoples Republic of China before 1986. P = preliminary. F = forecast.

Information contacts: Crops, Carol Whitton (202) 219-0824; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 24.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1991				1992		
	1989	1990	1991	Sept	Apr	May	June	July	Aug	Sept
Export commodities Wheat, f.o.b. vessel, Gulf ports (\$/bu.) Corp. f.o.b. vessel, Gulf ports (\$/bu.)	4.65	3.72	3 52	3.63	4.36	4 09	4.04	3.72	3.50	3 79
	2.85	2.79	2.75	2.77	2.79	2.80	2.81	2.61	2.49	2.50
Grain sorghum, f.o.b. vessel, Gulf ports (\$/bu.) Soybeans, f.o.b. vessel, Gulf ports (\$/bu.) Soybean oil, Decatur (cts./lb.) Soybean meal, Decatur (\$/ton)	2.70	2.65	2.69	2.71	2.79	2.75	2.70	2.42	2.41	2.41
	7.06	6.24	6.05	6.26	6.05	6.26	6. 36	6.01	5.86	5.82
	20 21	22.75	20.14	20.02	18.84	20.06	20.68	18.73	17.76	18 10
	216.59	169 37	172.90	192.23	174.43	183.40	181.36	174. 3 4	174.31	174.33
Cotton, 7-market avg. spot (cts./lb.) Tobacco, avg. price at auction (cts./lb.) Rice, t.o.b. mill. Houston (\$/cwt) Inedible tallow, Chicago (cts./lb.)	63.78	71.25	69.69	62.54	54.97	55.45	58 82	60.93	57.56	53.49
	166.81	170.57	179.23	178.48	162.04	162.04	162.04	155.02	165. 49	182.51
	15.68	15.52	16.46	17.00	17.50	17.25	16.63	16.50	16.50	16.50
	14.71	13.54	13.26	13.50	13.25	13.75	13.98	14.75	15 42	15.25
Import commodities Coffee, N.Y. spot (\$/Ib.) Rubber, N.Y. spot (cts./ib.) Cocoa beans, N.Y. (\$/Ib.)	1.04	0.81	0.71	0.68	0.49	0.47	0.46	0.44	0.38	0.40
	50 65	46.28	45.73	44.45	45.86	46.41	48.57	46.78	47.05	46.86
	0.55	0.55	0.52	0.56	0.44	0.42	0,40	0.47	0.50	0.47

Information contact: Mary Teymourian (202) 219-0824.

Table 25.—Indexes of Real Trade-Weighted Dollar Exchange Rates 1/

iddle 25.—Ilide	Wes Alle	GI II al	4.9			- 3		-				
	19	91						1992				
	Nov	Dec	Jan	Feb	Mar	Apr	May P	June P	July P	Aug P	Sept P	Dct P
					1985 = 10	0						
Total U.S. trade 2/	63.9	62 .4	62.4	63.7	68.6	65.0	63.9	59.8	59.6	59.0	58.6	57.1
Agricultural trade U.S. markets U.S. competitors	77.1 76.3	76.3 76.4	75.5 76.2	76.2 76.7	80.7 80.9	78.0 76.5	76.4 76.0	74.6 72.2	72.9 72.9	71.9 70.1	71.1 69.2	69 .6 67.4
Wheat U.S. markets U.S. competitors	96.8 69.4	98.8 69.5	95.4 70.0	95.8 71.2	100.9 66.7	100. 4 70.9	98.2 71.1	96.2 69.8	94.2 69.6	93. 6 69. 7	93.0 70.5	91.6 68.6
Soybeans U.S. markets U.S. competitors	65.0 56.3	63.7 57.4	63.1 57 1	63.7 57.0	66.2 57.7	65 5 57.4	63.6 56 5	61.9 55.8	61.4 56.0	60 .8 55.5	60.4 55.1	59. 6 64.7
Corn U.S. markets U.S. competitors	70.1 61.3	69.4 60.6	68.3 60.2	69.1 60.8	71.1 61.4	70.6 80 6	67.7 60 0	67. 7 57. 7	67.4 57.3	67.1 56.8	66.8 56.2	86.3 55.4
Cotton U.S. markets U.S. competitors	72.6 97.7	72 3 97.1	71.6 96.1	72.4 95.9	75.8 95.8	74.0 95.3	72,8 95,1	71.5 67.9	71.2 85.6	71.1 82.9	71.0 80.2	70.4 77.2

^{1/} Real indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = preliminary.

Information contact: Tim Baxter, (202) 219-0718.

Table 26.—Trade Balance

					Fiscal year 1	/		_	Aug
	1985	1986	1987	1988	1989	1990	1991	1992 F	1992
					\$ million	1			
Exports Agricultural Nonagricultural Total 2/	31.201 1 79 ,236 210 ,4 3 7	26,312 179,291 205,603	27,876 202,911 230,787	35,316 258,656 293, 972	39,590 301,269 340,859	40,220 326,059 366,279	37,609 356,682 394,291	41,500	3,090 29,825 32,915
Imports Agricultural Nonagricultural Total 3/	19,740 313.722 333,462	20,884 342,646 363,730	20,650 367,374 388,024	21,014 409,138 430 ,152	21,476 441,075 462,551	22,560 458,101 480,661	22,588 463,720 486,308	23,500	1,880 41,947 43,827
Trade balance Agricultural Nonagricultural Total	11,461 -134,486 -123,025	5,426 -163,555 -158,127	7,226 -164,463 -157, 237	14,302 -150,482 -136,180	18,114 -139,806 -121,692	17,660 -132,042 -114,382	15.021 -107.038 -92,017	18,000	1,210 -12,1 22 -10,912

^{1/} Fiscal years begin October 1 & end September 30. Fiscal year 1991 began Oct. 1, 1990 & ended Sept. 30, 1991. 2/ Domestic exports including Department of Defense shipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast — = not available.

Information contact: Stephen MacDonald (202) 219-0822

Table 27.—U.S. Agricultural Exports & Imports

		Fiscal yea	ar*	Aug		Fiscal year*		Aug
	1990	1991	1992 F	1992	1990	1991	1992 F	1992
EXPORTS	1	.000 units				\$ million		
Animals, live (no.) 1/ Meats & preps., excl. poultry (mt) Dairy products (mt) 1/ Poultry meats (mt) Fats, oils, & greases (mt)	685 873 105 563 1,265	1,235 937 43 628 1,169	2/ 900 700 1,300	113 91 18 75 111	361 2,457 358 679 459	546 2,774 293 737 419	600	34 267 64 82 41
Hides & skins încl. furskins Cattle hides, whole (no.) 1/ Mink pelts (no.) 1/	23,920 5,128	21,608 3,941		1.936 31	1,794 1,412 116	1,453 1,193 74	_	115 103 1
Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	112,925 26,068 851 2,491 69,384 11,163 978	100,016 26,708 1,076 2,401 52,337 16,389 1,105	33,500 900 2,200 48,200 5/ 11,500	7.882 2.887 56 132 3.999 886 122	15,698 4,212 198 830 8,094 1,828 536	12.206 2,857 202 749 5,769 1,914 695	3/ 13,700 4/ 4,300 700 5,700	1,091 370 13 46 432 160 70
Fruits, nuts, & preps. (mt) Fruit juices incl,	2,872	2,849	<u></u>	262	2,788	3,038	_	268
froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	5,975 2,243	6 .310 2,589		628 145	328 2.079	338 2.5 97	_	34 192
Tobacco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt)	218 1,666 656 447	239 1,565 514 589	1,600 —	10 65 63 38	1.359 2,704 573 187	1,533 2,605 618 219	1,500 2,300 700	59 91 42 12
Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	23.745 17.669 17.229 4.780 1,296 14 91	21,976 15,633 15,139 5,292 1,051 13 92	18,800	1,802 1,124 1,066 509 169 1	6,099 4,239 3,942 1,032 829 182 2,115	5,607 3,811 3,465 1,073 723 183 2,441	7.200 4,200	472 277 239 102 93 16 212
Total	147,583	133,219	140,000	10,569	40.220	-37.609	41.500	3,090
IMPORTS								
Animals, five (no.) 1/ Meats & preps., excl. poultry (mt) Beef & veaf (mt) Pork (mt)	2,936 1,142 754 340	3,168 1,191 811 322	800 260	191 88 62 22	1,053 2,848 1,642 888	1,131 3,016 2,024 866	1,200 2,100 800	85 205 1 43 52
Dairy products (mt) 1/ Poultry & products 1/ Fats, oils, & greases (mt) Hides & skins, Incl. furskins 1/ Wool, unmanufactured (mt)	255 19 47	231 33 50		19 -5 -3	951 129 15 182 187	807 119 19 153 175	800	74 11 2 12 10
Grains & feeds (mt) Fruits, nuts, & preps.,	3,481	4,163	5,000	477	1,181	1.271	1,500	145
excl. Juices (mt) Bananes & plantains (mt) Fruit juices (1,000 hectoliters) 1/	5,331 3,236 33,933	5,648 3,397 2 7,948	6,000 3,650 30,000	398 294 2,059	2,486 926 1,002	2.740 992 737	1,100	195 88 62
Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2,243 193 30 171 1,769	2.180 215 18 169 1,785	220 150	130 31 1 9 —	2,264 588 20 164 519 734	2,185 698 16 173 538 717	2,100 800 200 —	141 90 ,1 15 51 58
Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt)	2,016 534 310 1,171	2.077 445 412 1,220		231 35 53 143	964 206 48 710	959 151 57 750	1.100	123 11 7 104
Beverages excl. fruit juices (1,000 hectoliters) 1/	13,543	12,987		1.248	1,867	1.858	_	177
Coffee, tea, cocoa, spices Coffee, incl. products (mt) Cocoa beans & products (mt)	2,202 1,290 698	2,025 1,116 680	2,300 1,250 800	187 104 60	3,465 1,997 1,042	3,280 1,831 1,005	1,800 1,100	233 117 82
Rubber & allied gums (mt) Other	840	792	860	79	712 1,229	664 1,332	700	67 125
Totai					22,560	22,586	23,500	1,880

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1992 began Oct. 1, 1991 & ended Sept. 30, 1992. 1/ Not included in total volume and also other dairy products for 1989 & 1990. 2/ Forecasts for footnoted items 2/-8/ are based on slightly different groups of commodities. Fiscal 1990 exports of categories used in the 1991 forecasts were 2/ 676,000 m. tons. 3/ 16,014 million. 4/ 4,426 million i.e. Includes flour. 5/ 11,085 million m. tons. 6/ Less than \$500. F = forecast. --- = not available.

Information contact: Stephen MacDonald (202) 219-0822

Table 28.—U.\$. Agricultural Exports by Region

		Fiscal yea	ır"	Aug	Chang	ga from year*	earlier	Aug
Region & country	1990	1991	1992 F	1992	1990	1991	1992 F	1992
riegion a country		\$ million				Percent		
WESTERN EUROPE European Community (EC-12) Beiglum-Luxembourg France Germany Italy	7.309 6,816 426 469 1.096 702	7,312 6,776 464 571 1,135 675	7,600 7,100	439 389 31 33 72 23	4 -1 -1 17 15	0 -1 9 22 4 -4	4.	2 4 -4 5 -12 19
Netherlands United Kingdom Portugal Spain, incl. Canary Islands	1,636 760 338 976	1,561 883 251 855	minute and min	90 74 18 31	-1 <u>1</u> 3 10 15	-5 16 -26 -12		17 2 64 9
Other Western Europe Switzerland	493 171	536 194	500	41 9	-3 3	9 13	<u> </u>	-11 -10
EASTERN EUROPE Poland Yugoslavia Romania	533 101 129 210	306 46 74 82	200	17 5 0 8	35 124 69 239	-43 -54 -43 -61	-33 	-30 210 -100 -27
USSR	3,006	1,758	2,700	188	-59 ,	-42	50	11
ASIA West Asia (Mideast) Turkey Iraq Israel, Incl. Gaza & W. Bank Saudi Arabia	18,174 1,996 260 497 285 502	16,094 1,430 224 0 287 536	17,400 1,700 0 600	1,330 151 12 0 36 44	-3 -12 9 -37 -14	-11 -28 -14 -100 1	8 21 0 20	10 68 110 0 221 -1
South Asia Bangladesh India Pakistan Chine Japan	723 120 116 391 909 8,155	375 67 95 144 668 7,736	200 800 8,200	89 5 20 45 19 631	-38 -44 -52 -35 -39 0	-48 -44 -18 -63 -27 -5	100 29 6	130 -41 406 121 -55 7
Southeast Asia Indonesia Philippines	1,184 277 351	1,239 279 373	400	101 24 40	21 29 2	5 1 6		20 69 26
Other East Asia Taiwan Korea, Rep. Hong Kong	5,206 1,819 2,701 685	4,646 1,739 2,159 745	4,900 1,900 2,200 800	338 124 154 59	13 14 10 19	11 4 20 9	7 12 5 14	-6 -21 1 15
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2,011 1,527 164 491 763 484 32 81	1,884 1,388 129 479 692 496 44 74	2.200 1.400 500 700 800	224 101 20 18 56 123 1	-12 -15 -24 -11 -20 0 7 43	-6 -9 -21 -2 -9 2 37 -9	0 0 0 60	37 -13 148 -47 -17 155 -70 708
LATIN AMERICA & CARIBBEAN Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	5,155 105 1,008 463 147 2,666 187 345	5,500 271 1,010 497 124 2,884 150 307	6,400 200 3,700 400	472 8 72 29 11 257 11 42	-5 -30 0 3 6 -3 132 -41	7 159 0 7 -18 8 8 -20 -11	16 -33 28 33	-2 -87 -12 -49 -26 13 16 84
CANADA	3,715	4.409	4,700	389	70	19	7	12
OCEANIA	317	346	400	31	18,	8,	33	\$1
TOTAL	40.220	37,609	41,500	3,090	2	-6	11	.8.
Developed countries	19,805	20,104	21,400	1.585	10	5	7	13
Less developed countries	15,966	14,769	18,400	1,486	-3	-7	12	6
Centrally planned countries	4,448	2,736	3,700	20	-15	-38	37	-54

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1992 began Oct. 1, 1991 & ended Sept. 30, 1992, F = forecast. — = not available. Note: Adjusted for transshipments through Canada

Information contact: Stephen MacDonald (202) 219-0822.

Farm Income

Table 29.—Farm Income Statistics

						Calendar y	ear				
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 F
						\$ billion	1				
Farm receipts Crops (incl. net CCC loans) Livestock Farm related 1/	147.8	141.9	147.7	150.1	140.2	148.4	158.2	169.3	177.1	175	170 to 176
	72.3	67.2	69.9	74.3	63.7	65.8	71.6	76.9	80.0	81	80 to 83
	70.3	69.6	72.9	69.8	71.6	76.0	79.4	84.1	89.9	87	84 to 85
	5.2	5.1	4.9	6.0	5.7	6.8	7.1	8.2	7.2	8	8 to 8
Direct Government payments Cash payments Value of FIK commodities	3.5	9.3	8.4	7.7	11.8	16.7	14.5	10.9	9 3	8	9 to 10
	3.5	4.1	4.0	7.6	8.1	8.6	7.1	9.1	8.4	8	9 to 10
	0.0	5.2	4.5	0.1	3.7	10.1	7.4	1.7	0.9	0	0 to 1
3. Gross cash income (1+2) 2/ 4. Nonmoney income 3/ 5. Value of inventory change 8. Total gross farm income (3+4+5)	151.3	151.1	156.1	157 9	152.8	165.1	171.7	180.2	186.4	183	180 to 185
	14.3	13.6	5.9	5.6	5.5	5.6	6.1	6 2	6.1	6	6 to 7
	-1.4	-10.9	6.0	-2.3	-2.2	-2.3	-3.4	4.8	3.5	1	1 to 5
	164.1	153.9	168.0	161.2	156.1	168.5	1 7 5.4	191.1	196.0	189	188 to 195
7. Cash expenses 4/	113.2	112.8	118.7	110.7	105.0	109.4	114.6	121.2	125.2	125	125 to 129
8. Total expenses	140.3	139. 6	141.9	132.4	125.1	128.8	134.3	141.2	145.1	145	145 to 149
9, Net cash income (4-7) 10. Net farm income (6-8) Dafiated (1987\$)	38.1	38 4	37.4	47.1	47.8	55.8	58.1	58.9	61.3	58	64 to 67
	23.8	14.2	26.1	28.8	31.0	39.7	41.1	49.9	51.0	45	42 to 47
	28.6	16.3	28.7	30.5	32.0	39.7	39.5	46.0	45.0	38	34 to 40

1/ income from machine hire, custom work, sales of forest products. & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced load & imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, perquisites to hired labor. & farm household expenses. Total may not add because of rounding. F = forecast.

Information contact: Robert McElroy (202) 219-0800.

Table 30.—Balance Sheet of the U.S. Farming Sector

					Calenda	ar year 1/					
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 F
						\$ billion					
Assets Real estate	700.0	750.4	001.0					0.55			
Non-real estate	750.0 194.5	753.4	661.8	586.2	542 3	578.9	595.5	615.5	627.5	523	620 to 630
Livestock & poultry	53.0	189.8 49.5	195.2 49.5	186.5	182.1 47.8	193.7	205.4	213.4 66.2	219.0 70.9	219 68	215 to 225
Machinery & motor	55.0	48.5	49.5	46.3	47.8	58.0	62.2	00.2	70.9	68	68 to 72
vehicles	86.0	85.8	85.0	82 9	81.5	80.0	81.0	84.5	84.3	84	81 to 85
Crops stored 2/	25.8	23.6	26.1	22.9	16.3	17.5	23.3	23.4	22.8	24	21 to 25
Purchased Inputs	20.0	20.0	2.0	1.2	2.1	3.2	3.5	2.6	2.8	2	2 to 4
Financial assets	29.7	30.9	32.6	33 3	34 5	35 1	35.4	36.8	38.3	40	39 to 43
Total farm assets	944.5	943.2	857.0	772.7	724.4	772.6	800.9	828.9	846.5	842	845 to 850
Liabilities											
Real estate debt 3/	101.8	103.2	106.7	100.1	90.4	82.4	77.6	75.4	73. 7	74	73 to 77
Non-real estate debt 4/	87.0	87.9	87 1	77.5	86.6	62.0	81.7	61.8	63.1	64	63 to 67
Total farm debt	188.8	191.1	193.8	177.6	157.0	144.4	139.4	137.2	136.8	139	136 to 142
Total farm equity	755.7	752.2	663.3	595 1	567.5	628.2	661.6	691.8	709.8	703	705 to 715
						Percent					
Selected ratios											
Debt-to-assets	20.0	20.3	22.6	23.0	21.7	18.7	17.4	16.6	16.2	17	16 to 17
Debt-to-equity	25.0	25.5	29.2	29.8	27.7	23.0	21.1	19.8	19.3	20	19 10 20
Debt-to-net cash income	496	498	518	377	328	259	240	233	223	240	250 to 260

1/ As of Dec. 31. 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC. 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jim Ryan (202) 219-0798

Table 31.—Cash Receipts From Farm Marketings, by State

		Livestock &	products			С	rops 1/				Fotal 1/	
Region & State	1990	1991	July 1992	August 1992	1990	1991 \$ mi	July 1992 Ilion 2/	August 1992	1990	1991	July 1992	August 1992
NORTH ATLANTIC Maine New Hampshire Vermont Massachusetts	258 63 397 125	252 63 368 121	20 5 34 10	20 5 34 10	234 80 60 321	192 80 68 355	9 5 9 22	15 8 3 31	493 143 456 446	445 143 433 476	29 10 43 33	35 13 37 ,41
Rhode Island Connecticut New York New Jersey Pennsylvania	14 223 1,971 196 2,714	13 209 1,782 197 2,470	1 16 162 17 191	1 17 180 17 230	58 250 986 455 1,043	58 255 1,087 464 1,033	5 17 90 68 71	2 15 127 60 73	71 474 2, 9 58 850 3,757	71 463 2,868 660 3,503	6 34 253 84 262	3 32 2 88 76 302
NORTH CENTRAL Ohio Indiana Illinois Michigan	1.847 2,040 2,452 1,407	1,681 1,893 2,344 1,288	131 124 158 110	122 133 192 105	2,299 2,871 5,338 1,720	2,212 2,582 5,165 1,793	193 160 3 57 190	125 119 315 132	4,146 4,911 7,789 3,126	3,893 4,475 7,509 3,081	323 284 516 300	247 252 507 237
Wisconsin Minnesota Iowa Missouri	4,573 3,749 5,862 2,329	4,215 3,577 5,721 2,203	399 277 338 142	386 288 406 163	1,161 3,135 4,420 1,660	1,234 3,359 4,458 1,658	112 305 371 156	139 328 341 106	5,734 6,885 10,282 3,989	5,449 6,936 10,179 3,861	510 582 709 298	525 617 747 288
North Dakota South Dakota Nebraska Kansas	801 2,294 6,076 4,996	699 2,176 5,934 4,802	28 94 378 415	36 119 511 476	1,730 965 2,632 2,024	1.857 1.088 2.888 2,133	91 78 262 349	184 113 215 147	2,532 3,259 8,708 7,020	2,556 3,264 8,821 6,935	118 172 640 764	220 231 726 623
SOUTHERN Delaware Maryland Virginia West Virginia	460 823 1,383 269	438 779 1,363 253	37 64 103 19	38 87 117 22	176 542 739 70	181 554 732 77	10 56 72 6	20 36 6 1 9	636 1,364 2,122 339	620 1,332 2,095 330	47 121 175 25	58 123 177 30
North Carolina South Carolina Georgia Florida Kentucky Tennessee	2,658 581 2,270 1,261 1,699 1,111	2,608 549 2,153 1,172 1,704 1,045	191 36 169 96 282 64	235 43 184 87 101 82	2,268 588 1,596 4,483 1,404 950	2,316 677 1,825 4,969 1,475 933	210 63 87 221 49 33	358 88 157 199 40 40	4,926 1,169 3,866 5,744 3,103 2,061	4,824 1,225 3,976 6,141 3,179 1,978	401 99 256 318 331 98	592 131 341 286 141 1 22
Alabama Mississippi Arkansas Louisiana Oklahoma Texas	2,193 1.322 2.701 633 2.342 7.751	2,219 1,275 2,680 621 2,767 7,914	169 120 227 60 191 684	198 118 252 62 192 729	632 1,111 1,555 1,296 1,200 4,081	759 1,147 1,631 1,172 1,040 4,212	31 18 41 21 143 344	27 14 32 36 102 408	2,826 2,433 4,256 1,929 3,542 11,831	2,978 2,422 4,311 1,793 3,808 12,128	200 137 268 80 334 1,028	225 132 284 99 295 1,137
WESTERN Montana Idaho Wyoming Colorado	888 1,137 595 3,073	790 1,073 643 2,864	23 87 17 246	18 95 29 218	766 1,748 159 1,144	741 1,543 170 1,097	52 72 9	74 117 20 104	1;654 2,885 754 4,216	1,531 2,616 813 3,761	75 159 25 339	93 212 49 321
New Mexico Arizona Utah Nevada	1,001 813 587 209	1,019 786 553 187	60 57 51 12	61 69 46 18	482 1.097 175 115	482 1,104 178 89	56 47 23 5	56 26 19 6	1,483 1,910 76 2 324	1,501 1,890 731 276	116 104 74 17	117 95 65 24
Washington Oregon California Alaska Hawaii	1,396 753 5,533 6 86	1,29 0 824 5, 27 2 6 91	110 68 423 1 7	116 68 419 1	2,402 1,620 13,624 19 514	2,657 1,631 12,615 20 506	154 175 997 2 43	250 179 970 2 43	3,798 2,374 19,158 27 600	3,947 2,454 17,687 27 597	264 243 1,420 2 50	366 247 1,389 3 50
UNITED STATES	89,923	86,746	6.724	7,144	79,998	80,550	6,053	6,091	169,921	167.292	12.776	13,231

^{1/} Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0806.

Table 32.—Cash Receipts From Farming

				Annual			1991			1992		
	1986	1987	1988	1989	1990	1991	Aug	Apr	May	June	July	Aug
							\$ million					
Farm marketings & CCC loans"	135,361	141.844	151,102	161.027	169,920	167.292	13.421	12.138	11,593	11.891	12.778	13.234
Livestock & products Meat animals Dairy products Poultry & eggs Other	71.553	75.993	79,438	84,148	89.921	88,745	7,171	6,637	7,133	0,853	5.723	7.142
	39.081	44.478	46,492	46,857	51,911	51,093	4,072	3,792	3,998	3,724	3,356	3.878
	17.724	17.727	17,841	19,396	20,210	18,114	1,524	1,568	1,727	1,701	1,762	1.724
	12.701	11.515	12,868	15,372	15.243	15,083	1,389	1,087	1,235	1,242	1,229	1.353
	2.048	2.274	2,437	2,524;	2,657	2,476	185	168	173	187	376	187
Crops Food grains Feed crops Cotton (lint & seed) Tobacco	63,807	85.851	71,883	76,879	79.999	80.547	5,250	5,501	4.459	5.038	6,055	6.092
	5,723	5.790	7,474	8,247	7,512	6.823	643	392	259	872	1,133	696
	16,993	14.835	14,298	17,054	18.690	19.012	1,684	1,250	848	1.184	1,440	1,443
	3,371	4.189	4,546	5,033	5.489	5.589	219	103	68	66	42	174
	1,894	1,816	2,083	2,415	2.741	2.886	480	10	0	0	223	466
Oil-bearing crops	10,614	11,283	13,500	11,866	12,294	12,547	717	745	57 6	664	658	696
Vegetables & melons	8,859	9,898	9,788	11,534	11,455	11,293	1,087	1,088	1,081	883	867	1.186
Fruits & tree nuts	7,252	8,065	9,202	9,298	9,534	9,882	715	656	485	677	961	724
Other	9,101	10,176	10,772	11,435	12,284	12,514	708	1,378	1,043	692	731	706
Government Paymenta	11.813	16.747	14,480	10.887	9.298	8.214	66	1, 722	729	141	80	65
Total	147.174	158.591	165,582	171.914	179,218	175.606	13,487	13.860	12.322	12.032	12.858	13,289

^{*}Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period.

Information contact: Roger Strickland (202) 219-0808.

Table 33.—Farm Production Expenses _____

					Cal	endar year					
	1983	1984	1985	1986	1987	1988	1989	1990	1991		1992 F
						\$ million					
Feed purchased Livestock & poultry purchased Seed purchased Farm-origin inputs	20,573 8,818 2,690 32,081	19,383 9,487 3,386 32,256	16,949 9,184 3,128 29,261	17.472 9.758 3.188 30,418	17.463 11.842 3.259 32,564	20,393 12,764 3,359 36,515	21.002 13.138 3.558 37,698	20.706 14,832 3,576 39,114	19,800 14,358 3,975 38,133	19.000 13.000 3,000 36.000	to 15,000 to 5,000
Fertilizer & Ilms Fuels & oils Electricity Postloides Manufactured inputs	7.055 7.211 1.982 3.870 20.118	8.361 7,296 2,060 4.688 22,404	7.513 6,436 1.878 4.334 20,160	6,820 5,310 1,795 4,324 18,249	6.453 4.957 2.156 4.512 18.077	6.947 4.903 2.289 4,577 18.716	7,249 4,798 2,543 5,437 20,027	7.135 5,730 2,480 5,730 21,063	7.419 5,472 2.483 6.313 21.667	7,000 5,000 2,000 8,000 21,000	to 6,000 to 3,000 to 7,000
Short-term interest Real estate interest 1/ Total interest charges	10,615 10.815 21.430	10,396 10,733 21,129	8,735 9,878 18,613	7,367 9,131 1 6 ,498	8,767 8,187 14,954	6,797 7,88 5 14, 882	6,910 7,781 14,691	6,911 7,607 14,518	6,615 7,319 13,934	5,000 6 ,000 13,000	
Repair & maintenance 1/ Contract & hired labor Machine hire & custom work Marketing, storage, &	6,529 8,938 2,213	6,416 9,427 2,566	6,370 10,008 2,354	6,426 9,484 2.099	0,760 9,975 2,105	8,858 10,441 2,354	7,340 11,110 2,882	7,347 12,541 2,633	7.2 34 1 2 ,595 2,722	7,000 11,000 2,000	to 15.000
transportation Misc. Operating expenses 1/ 2/ Other operating expenses	3,904 10,961 32,545	4.012 10,331 32,751	4,127 10,010 32,888	3.652 9,759 31.420	4,078 11,171 34,089	3,450 11,791 34,894	4,080 12,522 37,734	4,046 12,364 38,931	4,532 13,256 40,339	4,000 10,000 39.000	(0 13,000
Capital consumption 1/ Taxes 1/ Net rent to nonoperator	23.758 4,465	20.847 4,337	19,299 4,542	17,788 4,612	17,092 4,853	17,344 4,848	17.780 5,127	17.494 5,623	17,352 5.980	17,000 5,000	to 18,000 to 7,000
landiord Other overhead expenses	5,211 33,434	8,150 33,334	7.690 31,531	6.099 28,499	7,124 29,069	7,290 29,482	8.187 31,094	8,33 4 31,451	7.484 30,796	7.000 29.000	
Total production expenses	139,608	141.873	132,433.	125,084	128.772	134.285	141.244	145,077	144,889	145.000	to 149,000

^{1/} Includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases, dairy assessments & feeding fees paid by nonoperators. Totals may not add because of rounding. F = torecast.

Information contacts: Chris McGath (202) 219-0804, Robert McEiroy (202) 219-0800.

Table 34.—CCC Net Outlays by Commodity & Function

					Fis	cal year				
	1984	1986	1986	1987	1988	1989	1990	1991	1992 E	1993 E
						\$ million				
COMMODITY/PROGRAM										
Feed grains Corn Grain sorghum	-934 76 89	4,403 463 336	10,524 1,185 471	12,346 1,203 394	8,227 764 57	2,863 467 45	2,450 361 -93	2,387 243 71	1,949 187 174	4,165 361 167
Barley Oats	5	2 7	26	17	-2 7	1 8	-5 8	12	33 9	32 8
Corn & cat products Total feed grains	-758	5.211	5 12 .21 1	13.967	9.053	3, 38 4	2,721	2,722	2.352	4,733
Wheat Rice Upland cotton	2.536 333 244	4,691 990 1,553	3,440 94 7 2,142	2,836 906 1,766	678 128 666	53 631 1,461	806 667 -79	2,958 867 382	1,608 698 1,271	1,751 736 1,893
Tobacco Dairy Soybeans	34 6 1,502 585	455 2,085 711	253 2.337 1,597	-346 1.166 -476	-453 1,295 -1.67 6	-367 679 -86	-307 505 5	-143 839 40	-32 199 5	38 131 20
Peanuts	1	12	32	8	7	13	1	48	83	35
Sugar Honey Wool	10 90 132	184 81 109	214 89 123	-65 73 152	-246 100 1/ 5	-25 42 93	15 47 104	-20 19 172	-27 21 162	-28 14 183
	362	346	457	535	614	620	618	625	7	7
Operating expense 3/ Interest expenditure Export programs 4/	1,064 743	1,435 134	1,411 102	1,219 276	425 20 0	98 -102	632 -34	745 733	675 1, 969	271 1,982
1989/89 Disaster/ livestock assistance Other	0 1,2 9 5	-314	0 486	0 371	0 1,665	3.919 110	2/ 161 609	121 2	1,086 466	0 1,368
Total	7,315	17,683	25,841	22,408	12.461	10,523	6,471	10,110	10,564	13,094
FUNCTION Price-support loans (net)	-27	6.272	13.628	12,199	4,579	-926	-399	418	541	1,066
Direct payments 5/ Deficiency	612 1.504	6,302 1,525	6,166 64	4.833 382	3,971	5,798 -1	4,178	6.224	5,11 8 0	7,718 0
Diversion Dairy termination	0	0	489 27	587 60	260	168 42	189	96 21	13 327	0 41 9
Other Disaster	1	Ō	6,746	0 5,862	6 4,245	6,011	0 4,370	6.341	5,458	0 8.137
Total direct payments	2,117	7,827	-		0	3,386	2/ 5	6	996	0
1988/89 crop disaster Emergency livestock/	0	0	0	0	_	-		115	90	0
forage assistance Purchases (net)	1,470	0 1.331	0 1,670	-479	31 -1.131	533 116	156 -48	54 6	220	199
Producer storage payments	268	329	465	832	658	174	185	1	26	24
Processing, storage, & transportation	639	657	1.013	1,659	1,113	659	317	394	192	128
Operating expense 3/ Interest expenditure Export programs 4/	362 1,064 743	346 1,435 134	457 1,411 102	535 1,219 276	614 425 200	620 98 -102	618 632 -34 6 69	625 745 733 86	7 675 1,969 390	7 271 1,982 1,280
Dther	679	-648	329	305	1,727	-46			10.564	13,094
Total	7,315	17,683	25.841	22,408	12,461	10,523	6,471	10,110	10,004	10,084

1/ Fiscal 1988 wool & mohair program outlays were \$130.635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager. 4/ Includes Export Guarantee Program, Direct Export Credit Program, CCC Transfers to the General Sales Manager. Market Promotion Program, 4/ Includes Export Guarantee Program, CCC Transfers to the General Sales Manager. Market Promotion Program, starting in fiscal 1991 & starting in fiscal 1992 Export Guarantee Program - Credit Reform, Export Enhancement Program, & Dairy Export Incentive Program. 5/ Includes cash payments only. Excludes payment-in-kind in fiscal 63-85 & generic certificates in fiscal 88-93. E = Estimated in the fiscal 1993 Mid-Session Review Budget based on June. 1992 supply & demand estimates. Minus (-) Indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 720-5148.

Food Expenditures

Table 35.—Food Expenditures Estimates

		Annual			1992		1992 ye	ar-to-date	
	1989	1990	1991	Aug	Sept P	Oct P	Aug	Sept P	Oct P
				\$ bil	llion				
Sales 1/									
Off-premise use 2/	274.3	296.7	309.0	26 8	25 8	26.8	208.3	234.1	260.9
Meals & snacks 3/	206.3	218.7	227.0	20,6	19.3	19,4	154.9	174.2	193.6
				199	1 \$ billion				
Sales 1/					•				
Off-premise use 2/	299.9	304.2	309.0	26.6	25.5	26.5	207.1	232.6	259.1
Meals & snacks 3/	223.3	228.0	226.9	20.2	18.8	19.0	152.1	171.0	190 0
			Pe	ercent chan	ige from year	r earlier (\$ bi	il.)		
Sales 1/									
Off-premise use 2/	7 1	8.2	4.1	0.4	5.5	6.7	3.0	3.2	3.6
Meals & snacks 3/	5 5	8.0	3 8	-1,4	4.0	1.6	2.1	2.3	2.2
			P	ercent chan	ige from year	r earlier (199)1 \$ bil.)		
Sales 1/									
Off-premise use 2/	0.8	1.4	1.4	-1.1	3.6	4.5	2.7	2.8	3.0
Meals & snacks 3/	0.6	1.2	0.4	-3.0	2.3	0.0	-0.1	0.1	0.1

^{1/} Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons—(1) this series includes only food not alcoholic beverages & pet food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & enacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector, "Agr.-Econ. Rpt. No. 575, Aug 1987.

Information contact. Alden Manchester (202) 219-0880.

Transportation

Table 36.—Rail Rates; Grain & Fruit-Vegetable Shipments

Annual			1991	1992					
1969	1990	1981	Sept	Apr	May	June	July	Aug	Sept
106.4	107.5	109.3	109.2	110.0	110.0	109 8 P	109.6 P	109 0 P	109.9 P
108.4	110.4	111.4		110.3	110.3	110 3 P	110 3 P	110 2 P	110.2 P
									110,3 P
103.9	105.4	108.1	108.2	109.4	109.4	109.4 P	109.5 P	109 5 P	108.1 P
28.4	27.6	26.8	27.5	28 8 P	21 1 P	23.7 P	25 8 P	28 2 P	29,8 P
									3.2
0.0	0.0	0.0	0.0	5.0	4.1	74.1	4.0	4.0	0.2
2.2	1.0	1.5	1.0	4.0	2.2	4.0	1.0	1.0	1.5
		0.4			12.3				_1.8
42.3	41.5	419	36.8	50.8	55.7	51.2	43.2	38.9	37.5
123.4	130.5	128.5	122.6	123.3	122.0	124.4	124 9	124 7	125
	108.4 108.4 108.7	1969 1990 108.4 107.5 108.4 110.4 108.7 110.1 103.9 105.4 26.4 27.6 3.3 3.8 2.2 18 2.6 2.3 42.3 41.5	1969 1990 1991 108.4 107.5 109.3 108.4 110.4 111.4 108.7 110.1 111.2 103.9 105.4 108.1 28.4 27.6 26.8 3.3 3.8 3.3 2.2 1 8 1.5 2.6 2.3 2.1 42.3 41.5 41.9	1969 1990 1991 Sept 108.4 107.5 109.3 109.2 108.4 110.4 111.4 110.7 108.7 110.1 111.2 110.8 103.9 105.4 108.1 108.2 26.4 27.6 26.8 27.5 3.3 3.8 3.3 3.3 2.2 1 8 1.5 1.8 2.6 2.3 2.1 1.6 42.3 41.5 41.9 36.8	1969 1990 1991 Sept Apr 108.4 107.5 109.3 109.2 110.0 108.4 110.4 111.4 110.7 110.3 108.7 110.1 111.2 110.8 110.2 103.9 105.4 108.1 108.2 109.4 26.4 27.6 26.8 27.5 26.6 P 3.3 3.8 3.3 3.3 3.8 2.2 1 8 1.5 1.6 1.8 2.6 2.3 2.1 1.6 2.8 42.3 41.5 41.9 36.6 50.8	1969 1990 1991 Sept Apr May 106.4 107.5 109.3 109.2 110.0 110.0 108.4 110.4 111.4 110.7 110.3 110.3 108.7 110.1 111.2 110.8 110.2 110.2 103.9 105.4 108.1 108.2 109.4 109.4 109.4 26.4 27.6 26.8 27.5 26.6 P 21.1 P 3.3 3.8 3.3 3.3 3.8 4.1 2.2 18 1.5 1.6 1.8 .2.3 2.6 2.3 2.1 1.6 2.8 3.5 42.3 41.5 41.9 36.6 50.8 55.7	1969 1990 1991 Sept Apr May June 106.4 107.5 109.3 109.2 110.0 110.0 109.8 P 108.4 110.4 111.4 110.7 110.3 110.3 110.3 P 108.7 110.1 111.2 110.8 110.2 110.2 110.4 P 103.9 105.4 108.1 108.2 109.4 109.4 109.4 P 26.4 27.6 26.8 27.5 26.6 P 21.1 P 23.7 P 3.3 3.8 3.3 3.3 3.8 4.1 4.1 2.2 1.8 1.5 1.6 1.8 .2.3 1.9 2.6 2.3 2.1 1.6 2.8 3.5 3.7 42.3 41.5 41.9 36.6 50.8 55.7 51.2	1969 1990 1991 Sept Apr May June July 108.4 107.5 109.3 109.2 110.0 110.0 109.8 P 109.8 P 108.4 110.4 111.4 110.7 110.3 110.3 110.3 P 110.3 P 108.7 110.1 111.2 110.8 110.2 110.2 110.4 P 110.4 P 103.9 105.4 108.1 108.2 109.4 109.4 109.4 109.5 P 28.4 27.8 28.8 27.5 28.6 P 21.1 P 23.7 P 25.8 P 3.3 3.8 3.3 3.3 3.3 3.8 4.1 4.1 4.8 2.2 1.8 1.5 1.6 1.8 2.3 1.9 1.9 2.6 2.3 2.1 1.6 2.8 3.5 3.7 2.1 42.3 41.5 41.9 36.6 50.8 55.7 51.2 43.2	1969 1990 1991 Sept Apr May June July Aug 106.4 107.5 109.3 109.2 110.0 110.0 109.8 P 109.8 P 109.0 P 108.4 110.4 111.4 110.7 110.3 110.3 110.3 P 110.3 P 110.2 P 108.7 110.1 111.2 110.8 110.2 110.2 110.4 P 110.4 P 110.3 P 103.9 105.4 108.1 108.2 109.4 109.4 109.4 P 109.5 P 109.5 P 26.4 27.6 26.8 27.5 26.6 P 21.1 P 23.7 P 25.8 P 26.2 P 3.3 3.8 3.3 3.3 3.8 4.1 4.1 4.8 4.6 2.2 1.8 1.5 1.6 1.8 2.3 1.9 1.9 1.2 2.6 2.3 2.1 1.6 2.8 3.5 3.7 2.1 0.1 2.6 2.3 2.1 1.6 2.8 3.5 3.7 2.1 0.1 42.3 41.5 41.9 36.8 50.8 55.7 51.2 43.2 38.9

^{1/}Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Rallroads. 3/ Shipments on Illinois & Mississippi waterways. U.S. Corps of Engineers. 4/ Agricultural Marketing Service, USDA. 5/ Preliminary data for 1992. P = preliminary. — = not available.

Information contact: T.Q. Hutchinson (202) 219-0840.

Indicators of Farm Productivity

Table 37.—Indexes of Farm Production, Input Use & Productivity 1/

	1982	1983	1984	1985	1986	1987	1988	1989	1990 2/	1991 2/
					11	977=100				
Farm output	116	96	112	118	111	110	102	114	119	120
All livestock products 3/	107	109	107	110	110	113	116	116	118	119
Meat animals	101	104	101	102	100	102	105	105	104	104
Dairy products	110	114	110	117	116	116	118	117	120	121
Poultry & eggs	119	120	123	128	133	144	148	153	162	168
All crops 4/	117	88	111	118	109	108	92	107	114	111
Feed grains	122	67	116	134	123	106	73	108	112	106
Hay & forage	109	100	107	106	106	102	69	101	102	103
Food grains	138	117	129	121	107	107	98	107	136	104
Sugar crops	96	93	95	97	106	111	105	105	107	112
Cotton	85	55	91	94	69	103	107	88	109	122
Tobacco	104	75	90	81	63	62	72	71	84	87
Oil crops	121	91	108	117	110	108	89	106	107	114
Cropland used for crops	101	88	99	98	94	88	87	90	90	89
Crop production per acre	116	100	112	120	116	123	106	119	127	125
Farm input 5/	98	98	95	91	89	89	87	87	88	_
Farm real estate	102	101	99	97	96	95	94	93	93	_
Mechanical power & machinery	89	66	65	80	77	74	74	73	71	-
Agricultural chemicals	118	102	120	115	109	111	112	119	122	
Feed, seed, & livestock										
purchasee	107	103	103	102	109	116	111	113	113	
Farm output per unit of input	119	100	1/18	129	124	124	116.	130	135	
Output per hour of labor										
Farm 6/	125	99	121	139	139	142	135-	147	142	44-40
Nontarm 7/	99	102	105	106	108	109	111	112	111	

^{1/} For historical data & Indexes, see Economic Indicators of the Farm Sector. Production & Efficiency Statistics, 1986, ECIFS 5–8. 2/ Preliminary indexes for 1991 based on Crop Production: 1991 Summary, released in January 1992, & unpublished data from the Agricultural Statistics Board, NASS, 3/ Gross livestock production includes minor livestock products not included in the separate groups shown. It cannot be added to gross crop production to compute farm output. 4/ Gross crop production includes some miscellaneous crops not in the separate groups shown. It cannot be added to gross livestock production to compute farm output. 5/ Includes other items not included in the separate groups shown. 6/ Economic Research Service. 7/ Bureau of Labor Statistics. — = not available.

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Food Supply & Use

Table 38.—Per Capita Consumption of Major Food Commodities 1/

Commodity	1984	1985	1986	1987	1988	1989	1990	1991 2
	Pounds						·	
Red meats 3/4/5/	123.7	124 9	122 2	117.4	119.5	115.9	112.4	112.0
Beef	73.8	74.6	74.4	69.5	68.6	65.4	63.9	63.1
Veal	1.5	1.5	1.6	1.3	1.1	1.0	0.9	0.8
Lamb & mutton	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.
Pork	47.2	47.7	45.2	45.6	48.2	48.4	48.4	47.0
Poultry 3/4/5/	43.7	45.2	47 1	50.7	51.7	53 6	56 0	58
Chicken	35.0	36.1	37.0	39.1	39,3	40.5	42.2	43.
Turkey	8.7	9.1	10 2	11.6	12.4	13,1	13.8	14.3
ish & shellfish 4/	14.1	15.0	15.4	16.1	15.1	15.6	15 0	14
gga 5/	33.0	32.4	32.2	32.2	31 2	29.9	29.6	29.
airy products								
Cheese (excluding cottage) 3/6/	21.5	22.5	23.1	24.1	23.7	23.8	24.7	25.
American	11.9	12 2	12.1	12.4	11.5	11,0	11.2	11.
Italian	5.8	6.5	7.0	7.6	8.1	8.5	9.0	9.
Other cheese 7/	3.9	3.9	4.0	4.1	4.1	4 3	4.6	4.
Cottage cheese	4 1	4.1	4.1	39	3.9	3.6	3.4	3.
leverage milks 3/	227.2	229.7	228.6	226.5	222.3	224.3	221.7	221.
Fluid whole milk 8/	126.8	123 3	116.5	111.9	105.7	97.6	90.4	87.
Fluid lowfat milk 9/	8.88	93.7	98.6	100.6	100 5	108.5	108.4	110.
Fluid skim milk	11.6	126	13.5	14.0	16.1	20.2	22.9	23.
Fluid cream products 10/	8.2	6.7	7.0	7.1	7.1	7.3	7.1	7.
Yogurt (excluding frozen)	3 7	4.1	4.4	4.4	4.7	43	4.1	4.
ice cream	18.2	18,1	18.4	18.3	17.3	16.1	15.8	16.
lee milk	7.0	6.9	7.2	7.4	8.0	8 4	7.7	7.
Frozen yogurt		_		_		2.0	2.8	3.
All dairy products, milk								
equivalent, milkfat basis 11/	581.9	593.7	591.5	601.2	582.8	565.2	570.8	564.
ats & oils Total fat content	58.8	64.3	64.3	62.9	63.0	61.1	62.7	63.
Butter & margarine (product weight)	15.3	15.7	16.0	15.2	14.8	14.6	15.3	14.
Shortening	21.3	22 9	22.1	21.4	21.5	21.5	22.2	22.
Lard & edible tallow (direct use)	3.8	3.7	3 5	2.7	2.6	2.7	3.0	3.
Salad & cooking oils	19.9	23 5	24.2	25.4	25 8	24.0	24.2	25.
resh fruits 12/	88.9	86.8	93.1	97.5	97.4	98.8	92.6	90.
anned fruit 13/	12.3	12.7	12.9	13.6	13.2	13.3	13.4	12
Pried fruit	2.6	2.9	2.9	27	3.0	3.3	3.2	3.
rozen fruit	3.0	3.3	3.6	3.9	3.8	4.6	4.3	3.
rozen citrus juices 14/	35.7	40 5	43.2	40.2	40.1	34.3	27.2	-
fegetables 1 <i>2/</i> Fresh	400.0	400 7	00.0	405.7	440.7	4400		400
	100.6	100 7	99.3	105.7	109 7	112.9	110.9	106.
Canning	90.9	87.8	87.9	87.6	83.5	90 7	96.4	94
Freezing	17.5	17.1	15.8	16.8	18.3	17.6	18.3	19.
otatoes, all 12/ weetpotatoes 12/	0.0	122.4 5.8	125.8 4.8	125.8	122 2	127 4	127.8	130
	5.4			48	4.5	4.6	5	4.
eanuts (shelled)	6.0	6.3	6.4	6.4	69	7.0	6.0	6.
ree nuts (shelled)	2.3	2.3	23	2.2	2.3	2.3	2.5	2
lour & cereal products 15/ Wheat flour	150.4 119.2	157.5	163.7	172.5	174.3	174.9	183.0	184.
Aice (milled basis)		124.7	125.7	129.9	130.0	129.2	135.7	135
aloric sweeteners 16/	8.5	9.0	11.6	14.0	14.3	15.2	18.2	17.
offee (green bean equiv.)	127.0 10.2	131.3 10.5	129.6 10.5	133.7 10.2	135 1	136.4 10.3	139.1	140
					9.8		10.2	10.
Cocoa (chocolate liquor equiv.)	3.4	3.7	3.8	3.9	3.8	3.9	4.2	'

1/ In pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, & ending stocks. Calendar—year data except fresh citrus fruits, peanuts, tree nuts, & rice, which are on crop—year basis. 2/ Preliminary.

3/ Total may not add due to rounding 4/ Boneless, trimmed weight. Chicken series revised to exclude amount of ready—to—cook chicken going to pet food as well as some water leakage that occures when chicken is cut up before packaging. 5/ Excludes shipments to the U.S. territories. 6/ Natural equivalent of cheese & cheese & other dairy products. Includes miscellaneous cheese not shown separately. 7/ Includes Swiss, Brick, Munster, gream, Neufchatel, Blue, Gorgonzola, Edam, & Gouda, 8/ Plain & flavored. 9/ Plain & flavored & buttermilk. 10/ Heavy cream, light cream, half & half, & sour cream & dip. 11/ Includes condensed & evaporated milk & dry milk products. 12/ Farm weight. 13/ Excludes pineapple & berries. 14/ Single strength equivalent. 15/ Includes rye, corn, oat, & barley products. Excludes quantities used in alcoholic beverages, corn sweeteners, & fuel. 16/ Dry weight equivalent. — not available.

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